

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042786.D
 Acq On : 29 Jul 2025 16:48
 Operator : SY/MD
 Sample : Q2712-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jul 30 01:15:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	144757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	398064	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	363372	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	299457	10.406	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	14009	0.732	ppbv	96
3) Chlorodifluoromethane	1.466	51	276925	11.107	ppbv #	69
4) Chloromethane	1.531	50	5410	0.699	ppbv	97
6) Bromomethane	1.466	94	4691	1.586	ppbv #	56
7) Chloroethane	1.466	64	72277	24.452	ppbv #	49
8) Dichlorotetrafluoroethane	1.440	85	625	0.040	ppbv	88
9) Propene	1.560	41	889534	98.167	ppbv	96
10) Heptane	4.991	43	13850	0.567	ppbv #	51
11) Trichlorofluoromethane	1.881	101	21818	1.106	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.140	101	1170	0.078	ppbv	95
13) Ethanol	1.725	45	1501601	2274.737	ppbv	99
15) Acetone	1.839	43	393351	19.679	ppbv	98
16) 1,3-Butadiene	1.622	39	29432	3.452	ppbv #	20
17) tert-Butyl alcohol	2.059	59	15353	0.852	ppbv #	72
19) Isopropyl Alcohol	1.890	45	109463	10.305	ppbv #	7
20) Methylene Chloride	2.065	84	5920	0.940	ppbv #	85
21) Allyl Chloride	1.965	41	462090	37.509	ppbv #	51
23) Vinyl Acetate	2.457	43	109547	4.521	ppbv #	94
25) Ethyl Acetate	2.839	43	703519	15.901	ppbv #	91
26) Hexane	2.832	57	17103	0.881	ppbv #	1
27) Carbon Disulfide	2.152	76	1905	0.115	ppbv #	51
28) Methyl tert-Butyl Ether	2.560	73	625	0.068	ppbv #	1
29) Chloroform	2.852	83	20938	0.698	ppbv	100
30) Cyclohexane	3.861	84	912	0.055	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	84504	4.237	ppbv #	23
34) 2-Butanone	2.564	43	69967	2.481	ppbv	100
35) Carbon Tetrachloride	3.764	117	1974	0.067	ppbv #	75
36) Benzene	3.661	78	11967	0.317	ppbv	96
37) 1,2-Dichloroethane	3.221	62	599	0.026	ppbv #	81
39) 1,2-Dichloropropane	3.962	63	101832	7.313	ppbv #	22
41) Tetrahydrofuran	3.062	42	19230	1.340	ppbv #	48
44) 2,2,4-Trimethylpentane	4.645	57	6259	0.102	ppbv #	41
50) 4-Methyl-2-Pentanone	5.774	43	31323	0.862	ppbv	94
51) 2-Hexanone	7.448	43	26639	0.971	ppbv #	97
52) Tetrachloroethene	8.234	164	1196	0.076	ppbv #	88
53) Toluene	6.943	91	92975	2.295	ppbv	98
58) Ethyl Benzene	9.364	91	10925	0.190	ppbv #	85
59) m/p-Xylene	9.535	91	37151	0.810	ppbv	100
60) o-Xylene	9.972	91	17984	0.392	ppbv	98
61) Styrene	9.878	104	22758	1.181	ppbv	95
62) Isopropylbenzene	10.548	105	5702	0.084	ppbv	94
64) n-propylbenzene	10.995	120	4688	0.266	ppbv	85
65) tert-Butylbenzene	11.542	119	12215	0.203	ppbv #	20

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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

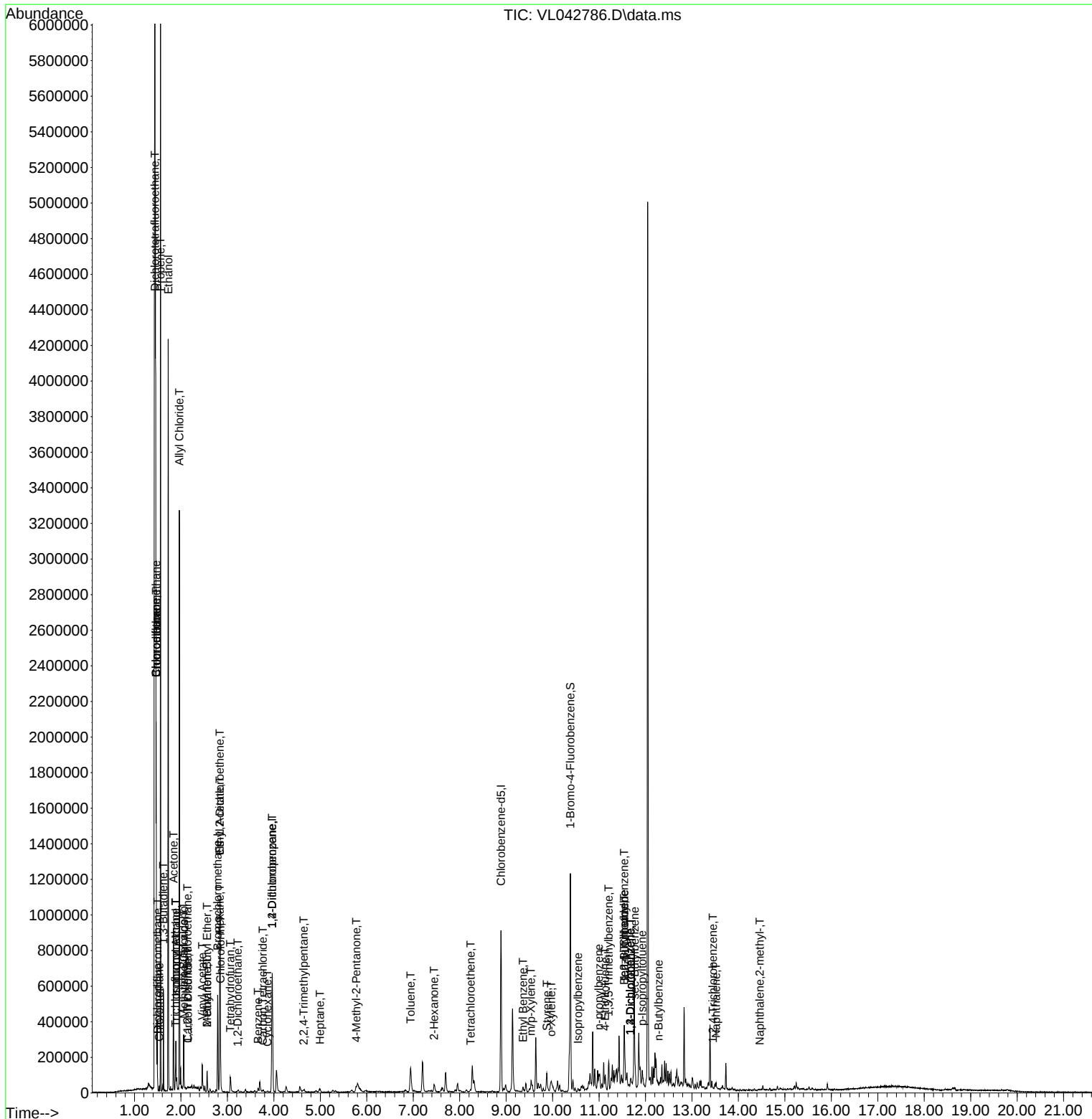
Instrument :
 MSVOA_L
 ClientSampleId :
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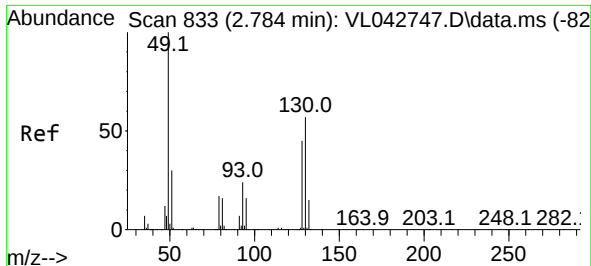
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
66) Benzyl Chloride	11.539	91	18237	3.700	ppbv	#	67
67) sec-Butylbenzene	11.769	105	3112	0.036	ppbv	#	1
69) p-Isopropyltoluene	11.927	119	32129	0.461	ppbv	#	90
70) n-Butylbenzene	12.283	91	2333	0.035	ppbv	#	1
72) 4-Ethyltoluene	11.131	105	22908	0.419	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.209	105	27631	0.613	ppbv	#	82
74) 1,2,4-Trimethylbenzene	11.542	105	103870	2.113	ppbv	#	61
75) 1,3-Dichlorobenzene	11.675	146	8416	0.244	ppbv		85
76) 1,4-Dichlorobenzene	11.675	146	8416	0.250	ppbv		90
77) 1,2-Dichlorobenzene	11.675	146	8416	0.248	ppbv		98
79) Naphthalene	13.516	128	13453	0.676	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	757	1.154	ppbv	#	74
81) 1,2,4-Trichlorobenzene	13.448	180	45	0.436	ppbv	#	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

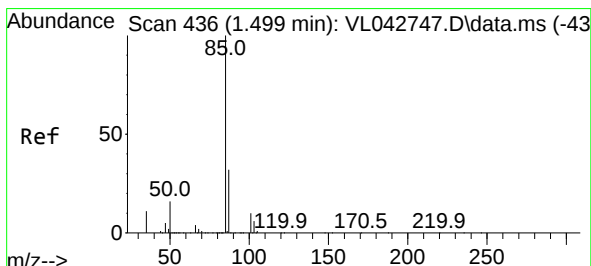
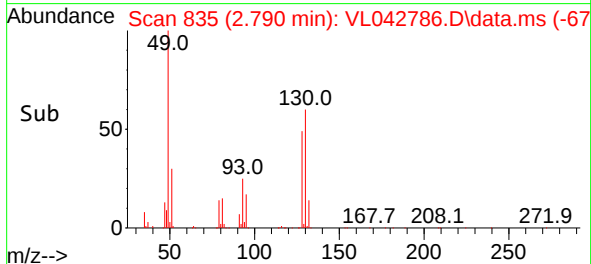
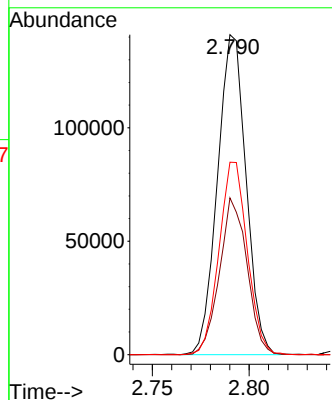
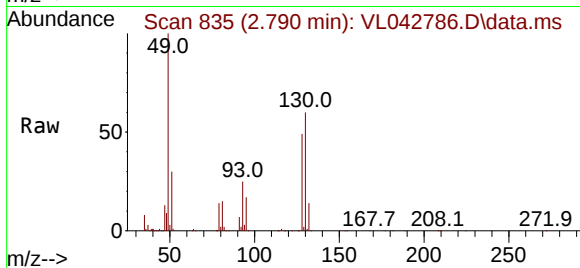




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 833
 Delta R.T. 0.006 min
 Lab File: VL042786.D
 Acq: 29 Jul 2025 16:48

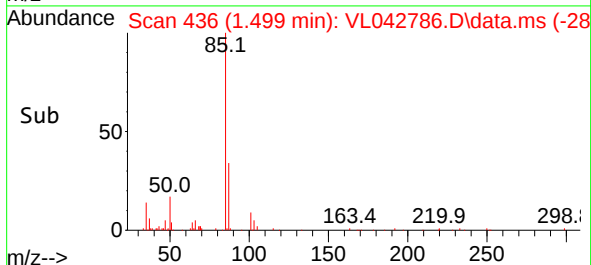
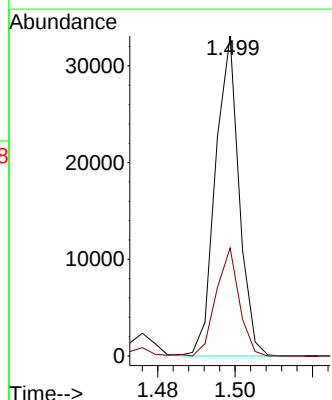
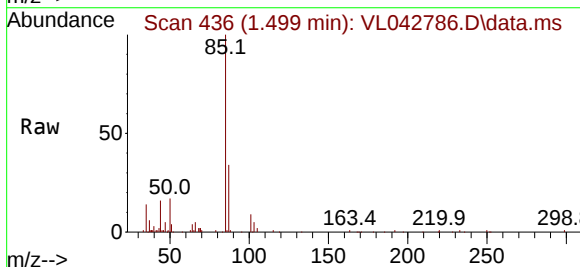
Instrument :
 MSVOA_L
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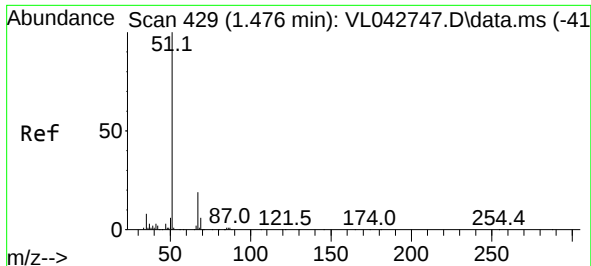
Tgt Ion: 49 Resp: 144757
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.6 71.0
 130 59.6 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.732 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042786.D
 Acq: 29 Jul 2025 16:48

Tgt Ion: 85 Resp: 14009
 Ion Ratio Lower Upper
 85 100
 87 33.8 25.4 38.2

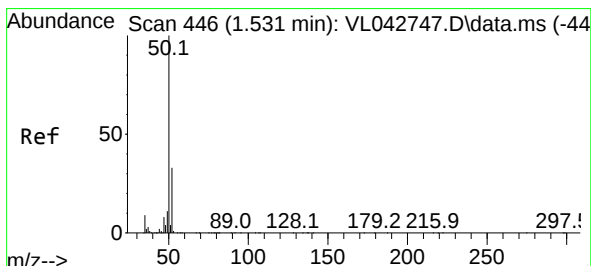
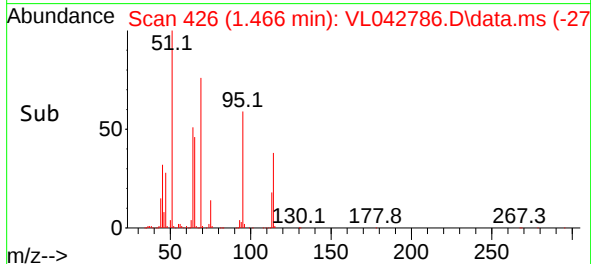
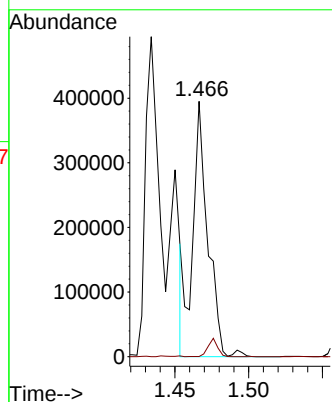
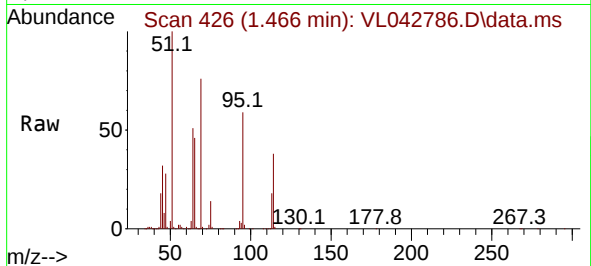




#3
Chlorodifluoromethane
Concen: 11.107 ppbv
RT: 1.466 min Scan# 429
Delta R.T. -0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

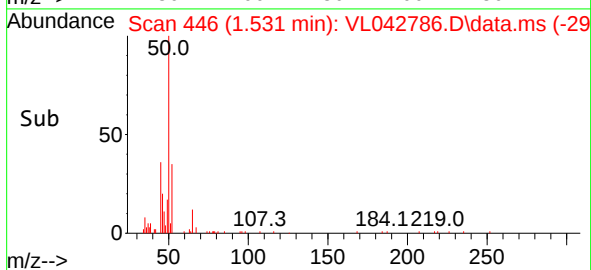
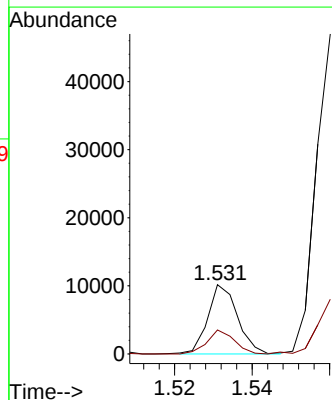
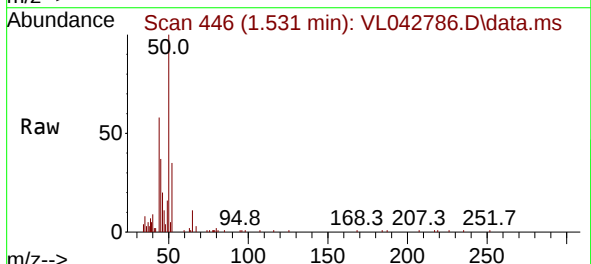
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MSVOA_L
ClientSampleId :
IA1

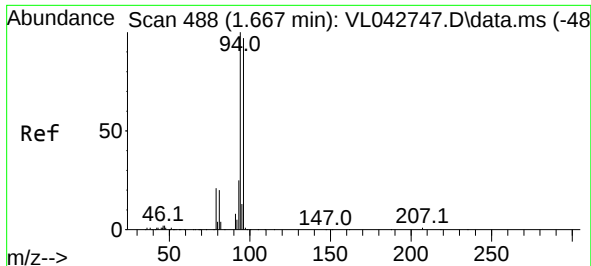
Tgt Ion: 51 Resp: 276925
Ion Ratio Lower Upper
51 100
67 5.0 15.0 22.6#



#4
Chloromethane
Concen: 0.699 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 50 Resp: 5410
Ion Ratio Lower Upper
50 100
52 35.1 26.6 40.0

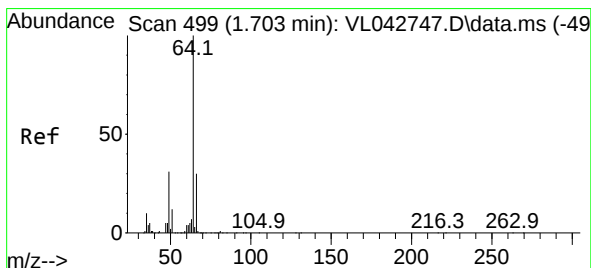
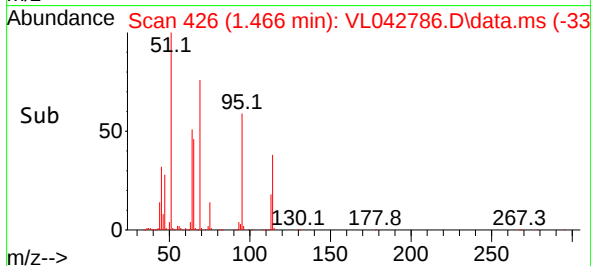
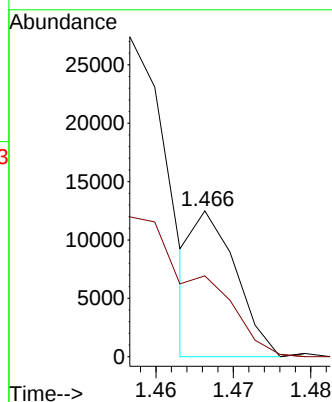
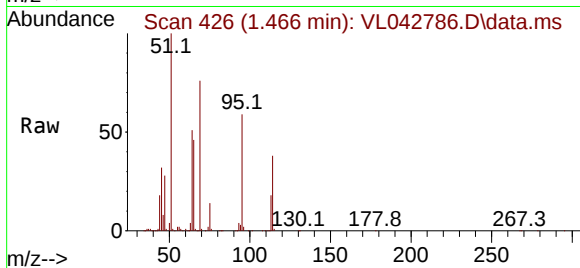




#6
Bromomethane
Concen: 1.586 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.201 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

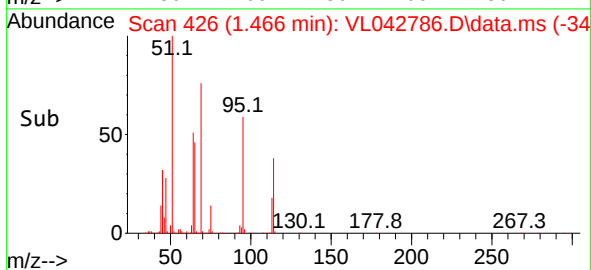
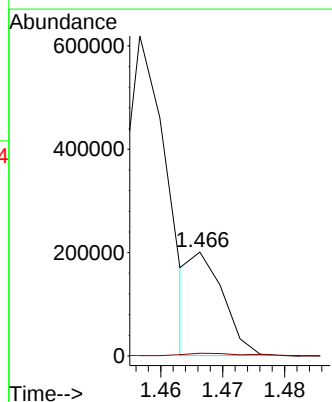
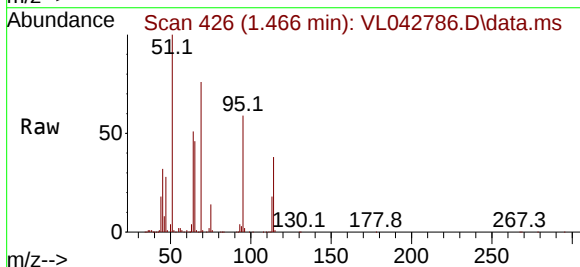
Instrument :
MSVOA_L
ClientSampleId :
IA1

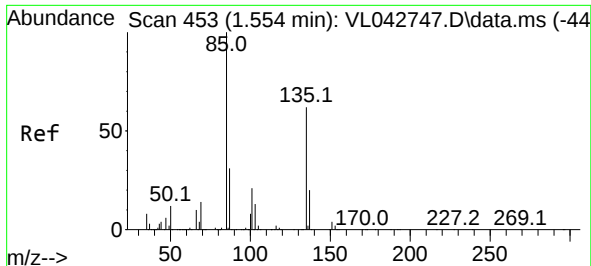
Tgt Ion: 94 Resp: 4691
Ion Ratio Lower Upper
94 100
96 53.9 77.6 116.4#



#7
Chloroethane
Concen: 24.452 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 64 Resp: 72277
Ion Ratio Lower Upper
64 100
66 2.6 24.1 36.1#

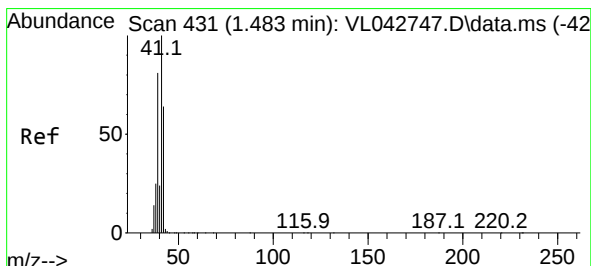
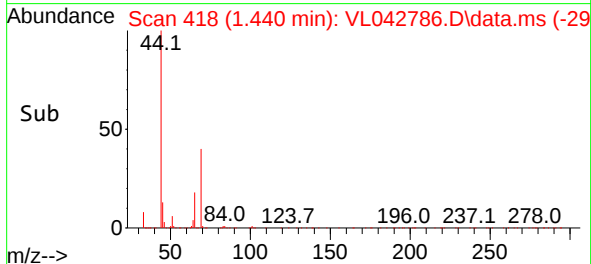
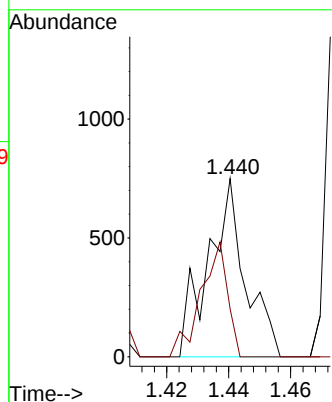
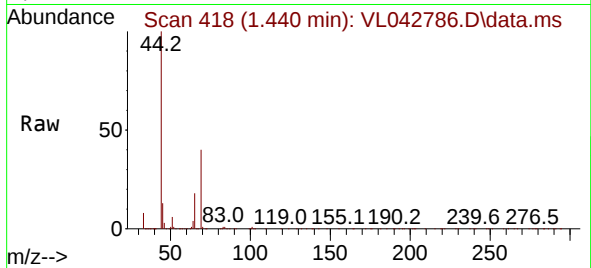




#8
 Dichlorotetrafluoroethane
 Concen: 0.040 ppbv
 RT: 1.440 min Scan# 418
 Delta R.T. -0.113 min
 Lab File: VL042786.D
 Acq: 29 Jul 2025 16:48

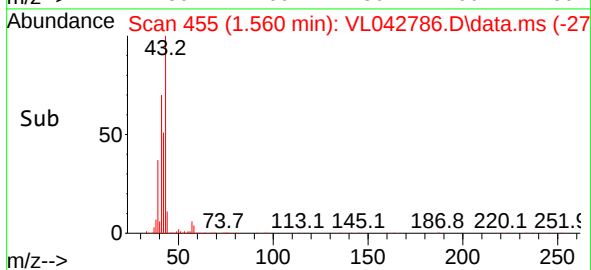
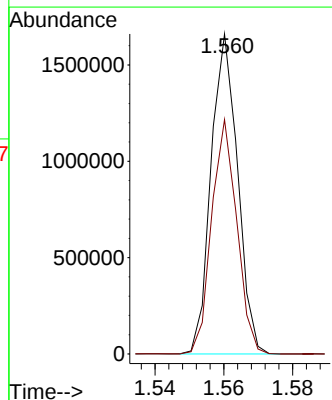
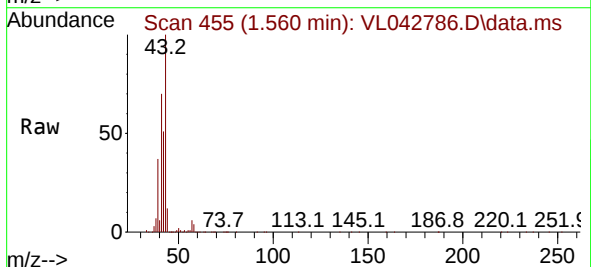
Instrument :
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 ClientSampleId :
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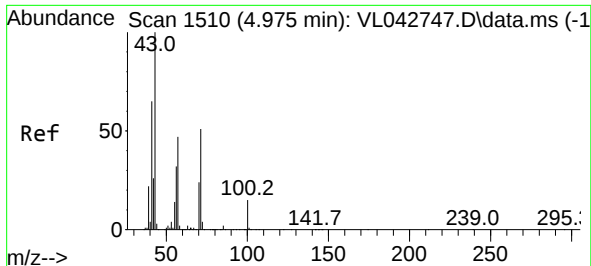
Tgt Ion: 85 Resp: 625
 Ion Ratio Lower Upper
 85 100
 135 53.6 50.6 76.0



#9
 Propene
 Concen: 98.167 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.078 min
 Lab File: VL042786.D
 Acq: 29 Jul 2025 16:48

Tgt Ion: 41 Resp: 889534
 Ion Ratio Lower Upper
 41 100
 42 69.7 53.2 79.8

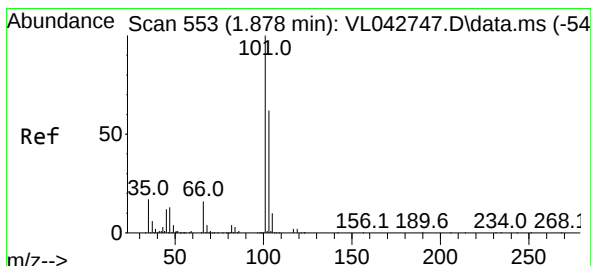
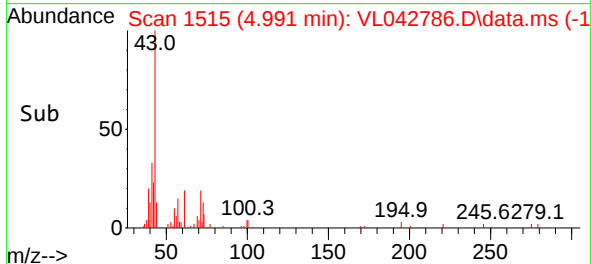
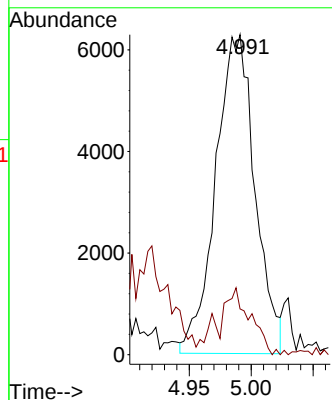
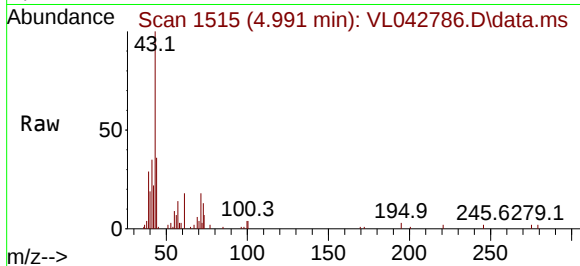




#10
Heptane
Concen: 0.567 ppbv
RT: 4.991 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

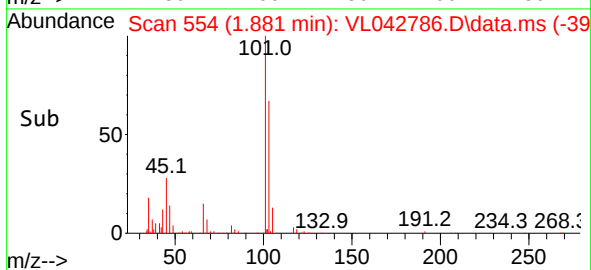
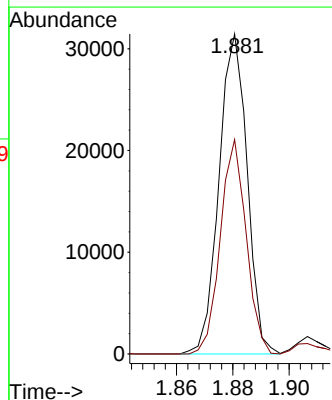
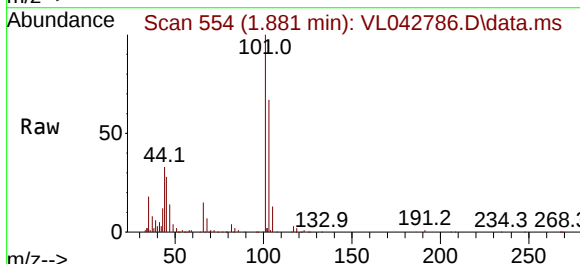
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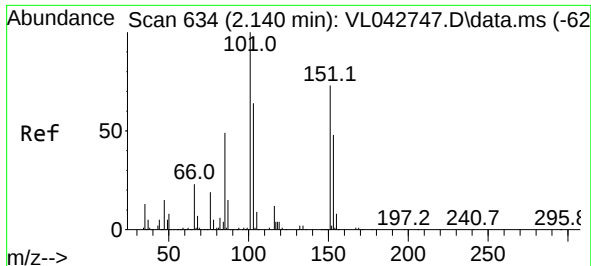
Tgt Ion: 43 Resp: 13850
Ion Ratio Lower Upper
43 100
57 16.5 39.9 59.9#



#11
Trichlorofluoromethane
Concen: 1.106 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion:101 Resp: 21818
Ion Ratio Lower Upper
101 100
103 67.0 49.6 74.4

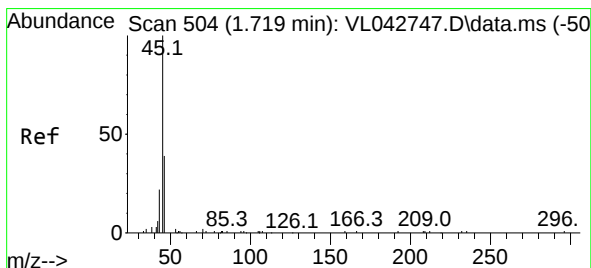
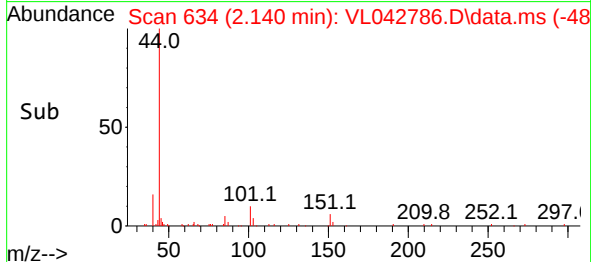
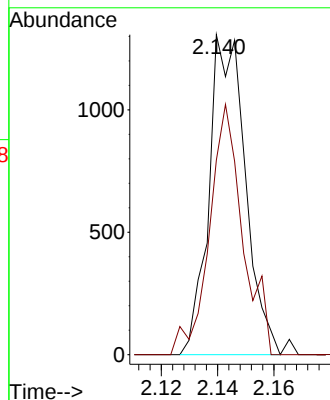
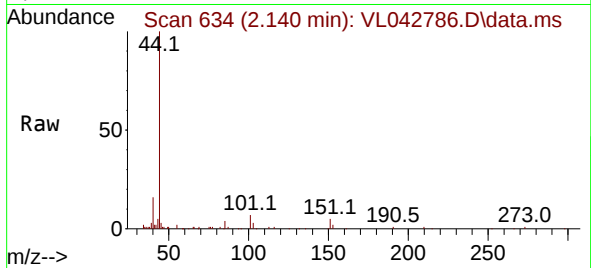




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.078 ppbv
RT: 2.140 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

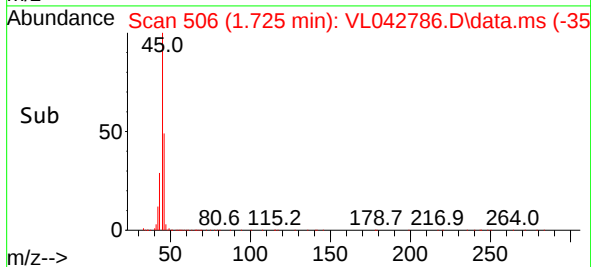
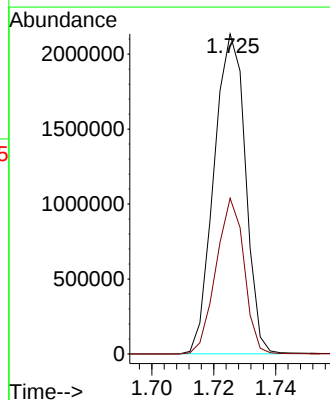
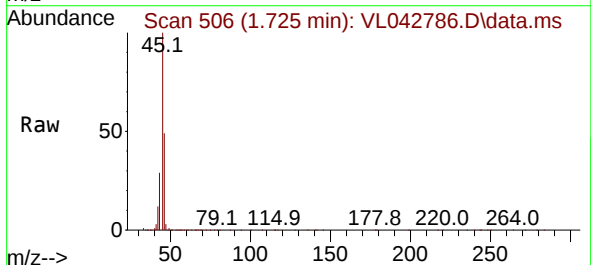
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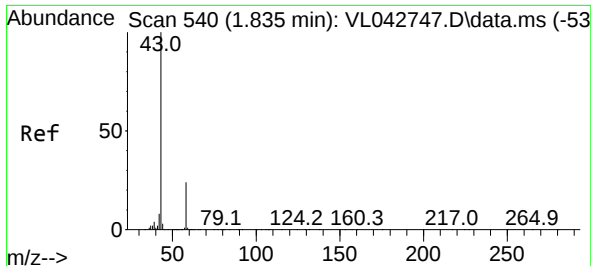
Tgt Ion:101 Resp: 1170
Ion Ratio Lower Upper
101 100
151 71.7 60.5 90.7



#13
Ethanol
Concen: 2274.737 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 45 Resp: 1501601
Ion Ratio Lower Upper
45 100
46 43.7 17.8 71.4

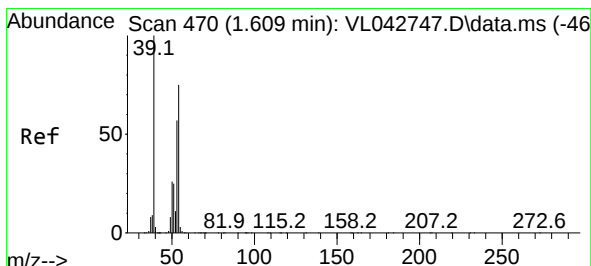
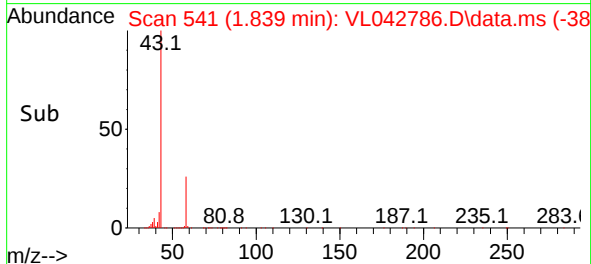
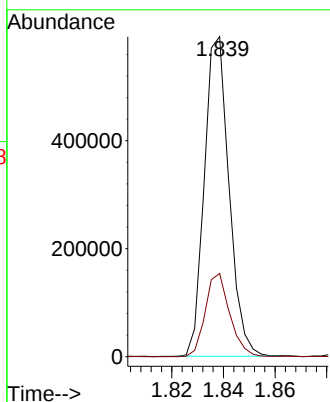
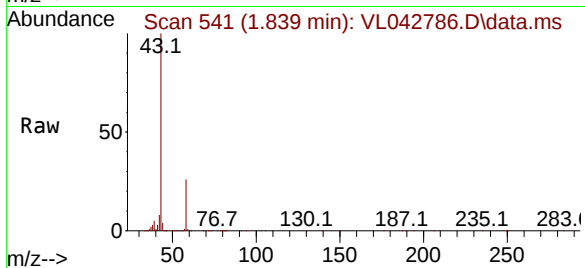




#15
Acetone
Concen: 19.679 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

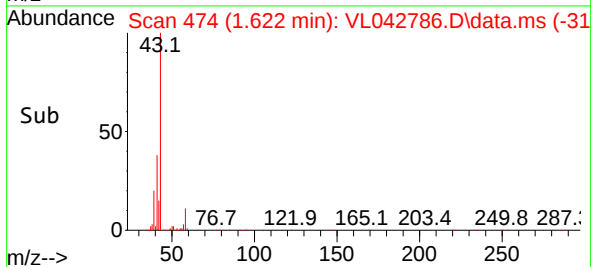
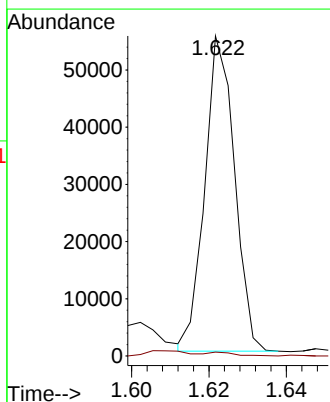
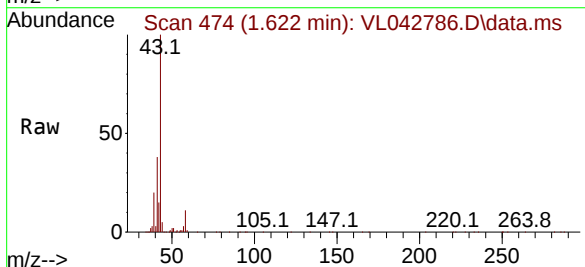
Instrument :
MSVOA_L
ClientSampleId :
IA1

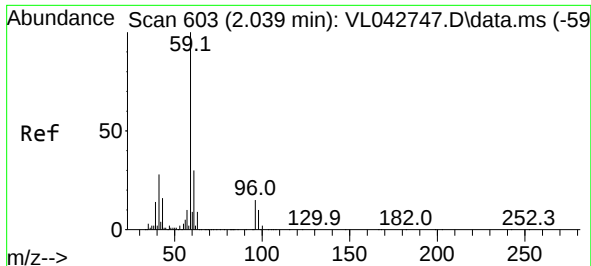
Tgt Ion: 43 Resp: 393351
Ion Ratio Lower Upper
43 100
58 26.0 19.8 29.8



#16
1,3-Butadiene
Concen: 3.452 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 39 Resp: 29432
Ion Ratio Lower Upper
39 100
54 3.5 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 0.852 ppbv

RT: 2.059 min Scan# 603

Delta R.T. 0.019 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

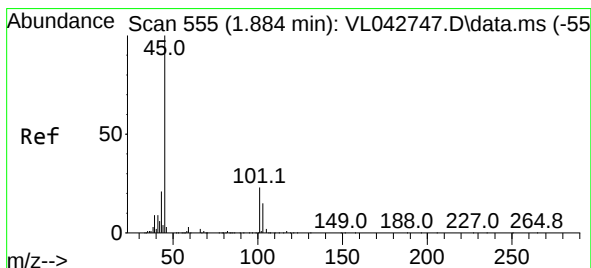
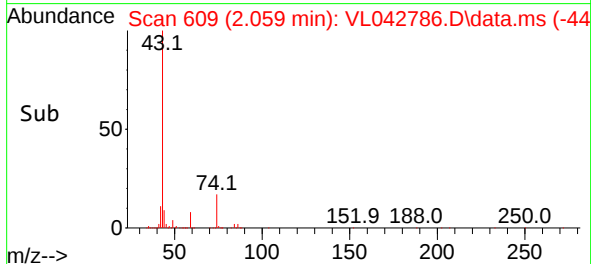
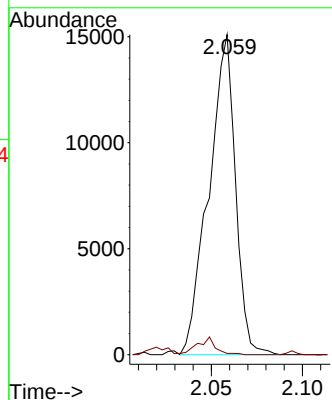
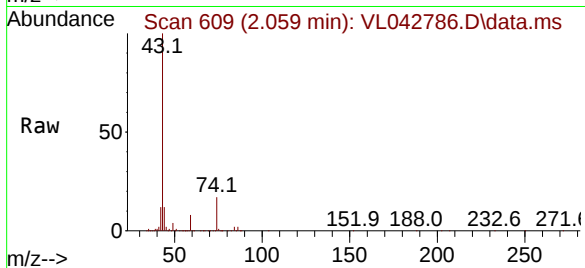
IA1

Tgt Ion: 59 Resp: 15353

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 10.305 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042786.D

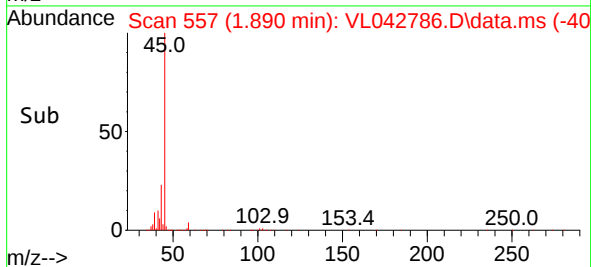
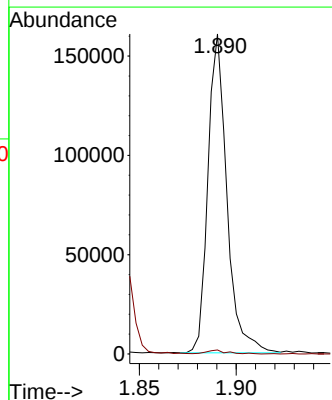
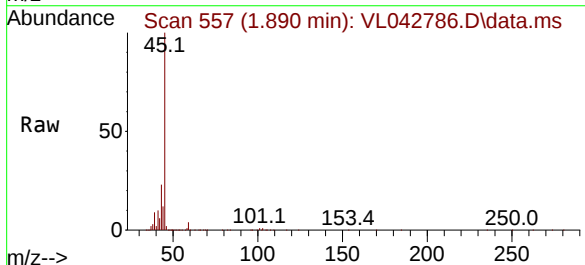
Acq: 29 Jul 2025 16:48

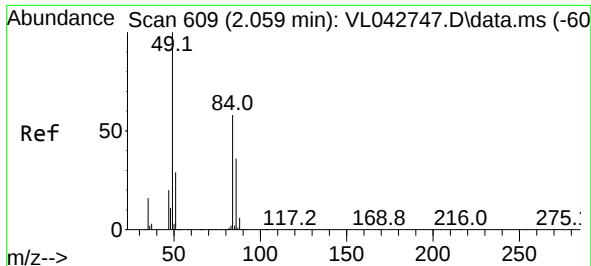
Tgt Ion: 45 Resp: 109463

Ion Ratio Lower Upper

45 100

58 93.3 30.0 45.0#

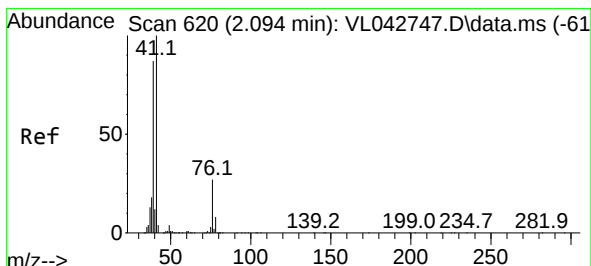
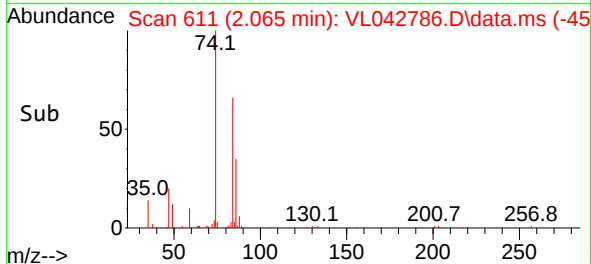
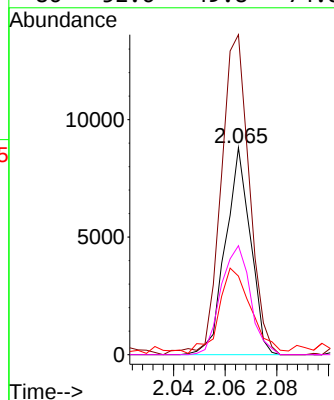
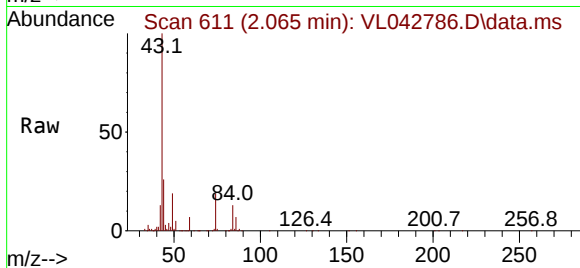




#20
Methylene Chloride
Concen: 0.940 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

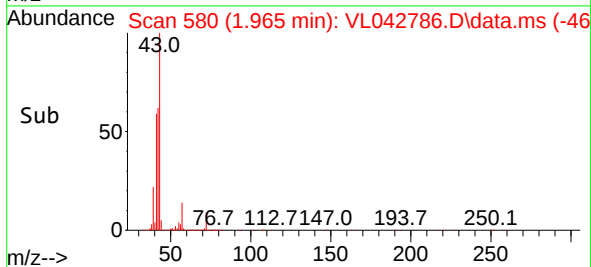
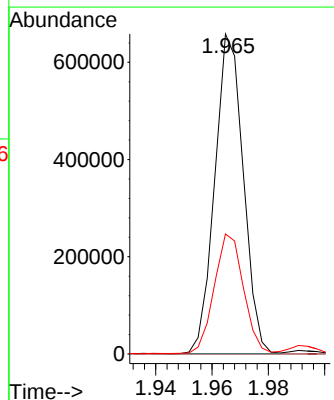
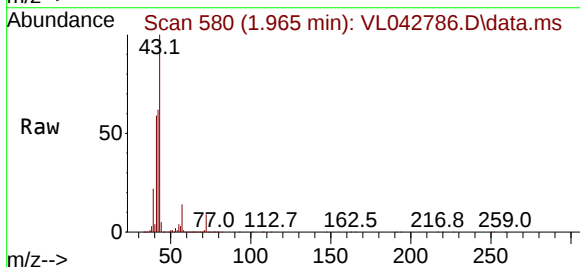
Instrument :
MSVOA_L
ClientSampleId :
IA1

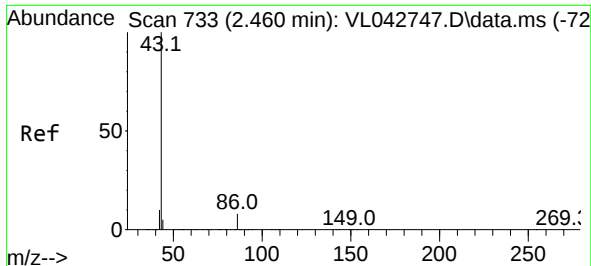
Tgt Ion: 84	Resp: 5920
Ion Ratio	Lower Upper
84 100	
49 154.5	138.6 208.0
51 35.7	40.6 61.0#
86 52.6	49.8 74.8



#21
Allyl Chloride
Concen: 37.509 ppbv
RT: 1.965 min Scan# 580
Delta R.T. -0.130 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 41	Resp: 462090		
Ion Ratio	Lower	Upper	
41	100		
76	0.0	21.1	31.7#
39	41.4	68.3	102.5#

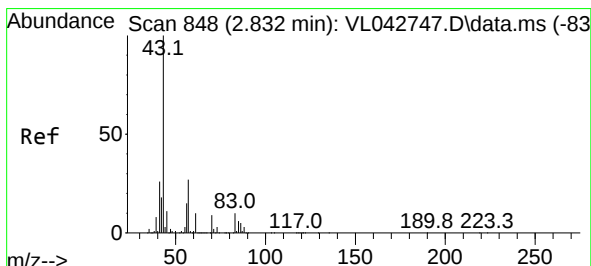
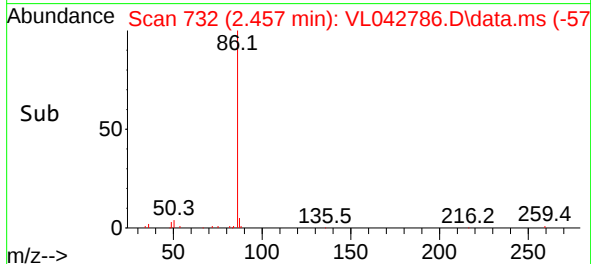
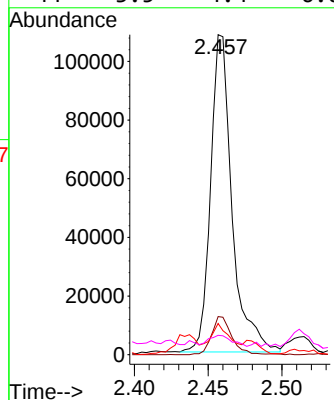
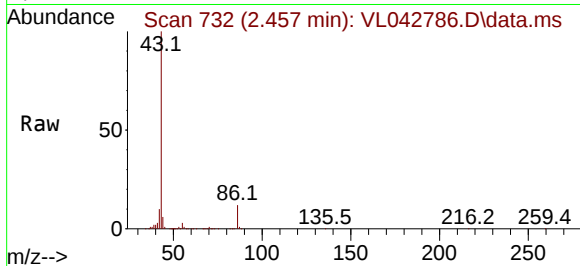




#23
 Vinyl Acetate
 Concen: 4.521 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042786.D
 Acq: 29 Jul 2025 16:48

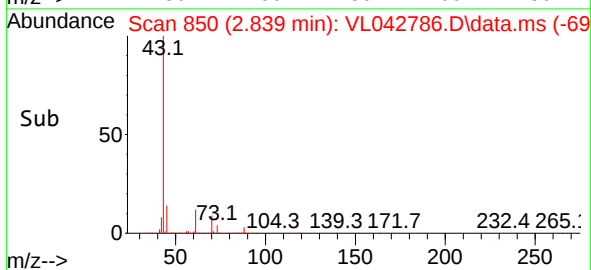
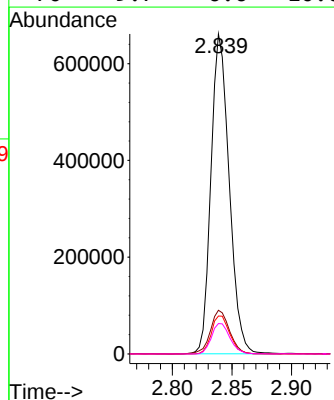
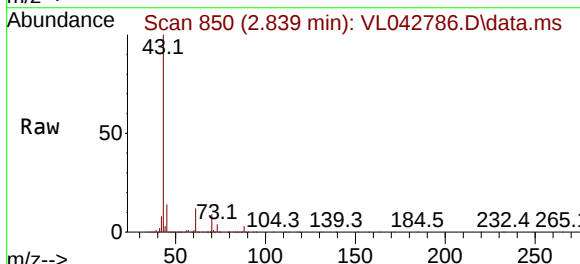
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

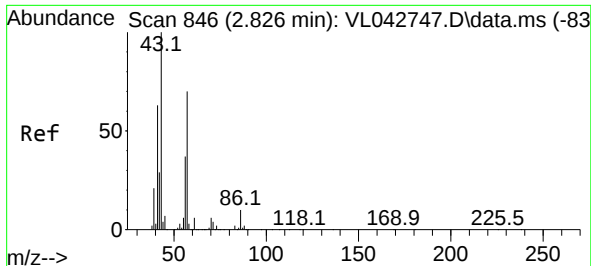
Tgt Ion: 43 Resp: 109547
 Ion Ratio Lower Upper
 43 100
 86 12.0 6.1 9.1#
 42 9.5 7.8 11.8
 44 3.5 4.4 6.6#



#25
 Ethyl Acetate
 Concen: 15.901 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.006 min
 Lab File: VL042786.D
 Acq: 29 Jul 2025 16:48

Tgt Ion: 43 Resp: 703519
 Ion Ratio Lower Upper
 43 100
 45 14.5 7.8 11.6#
 61 12.1 6.7 10.1#
 70 9.7 6.6 10.0

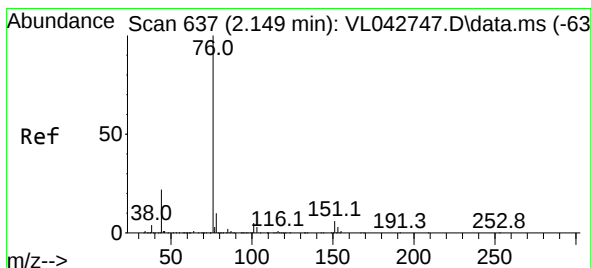
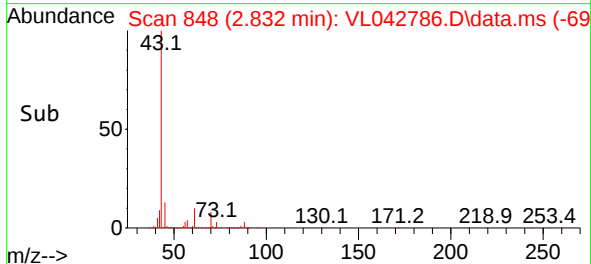
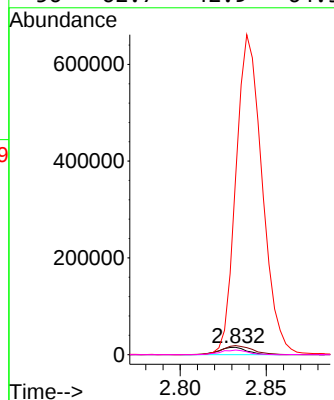
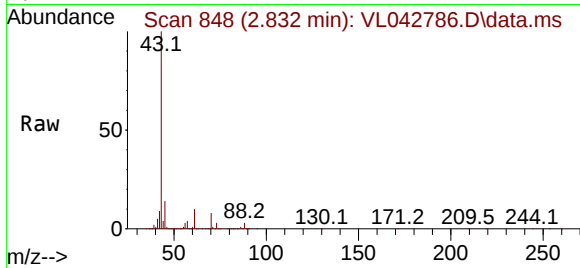




#26
Hexane
Concen: 0.881 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

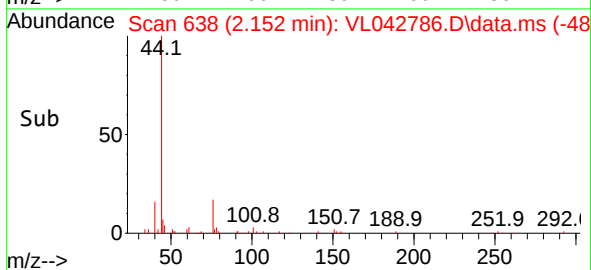
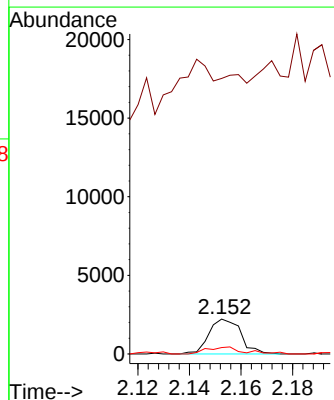
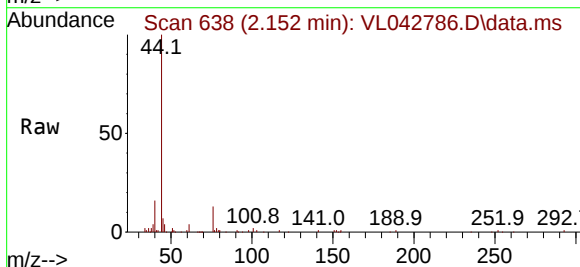
Instrument :
MSVOA_L
ClientSampleId :
IA1

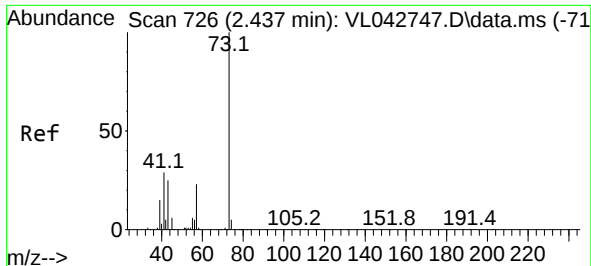
Tgt Ion: 57 Resp: 17103
Ion Ratio Lower Upper
57 100
41 140.0 75.4 113.2#
43 4136.0 185.0 277.6#
56 62.7 42.9 64.3



#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 76 Resp: 1905
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 31.4 9.9 14.9#

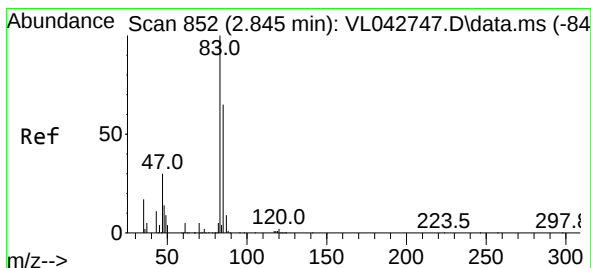
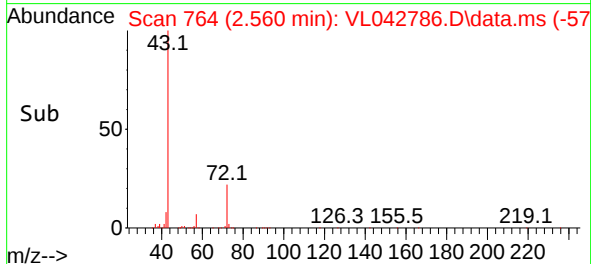
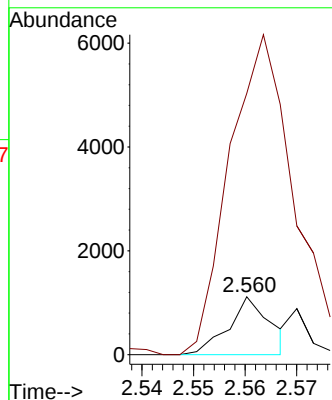
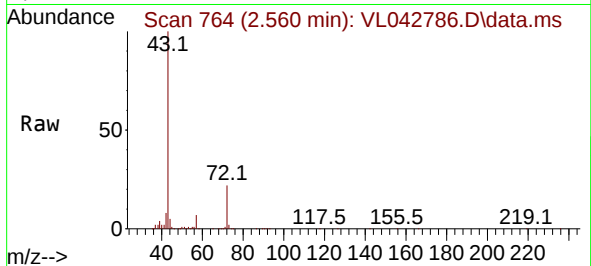




#28
Methyl tert-Butyl Ether
Concen: 0.068 ppbv
RT: 2.560 min Scan# 726
Delta R.T. 0.123 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

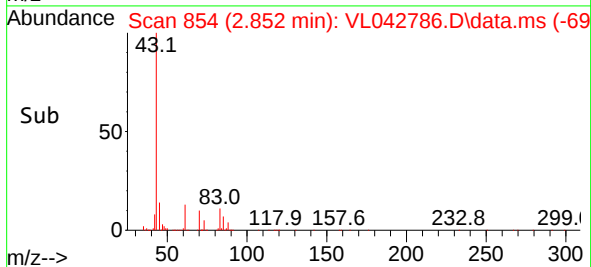
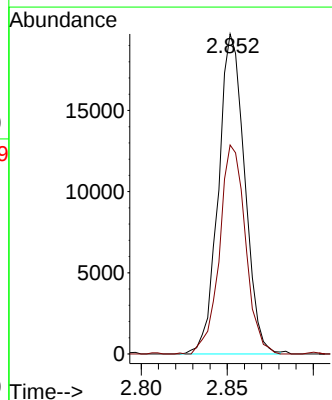
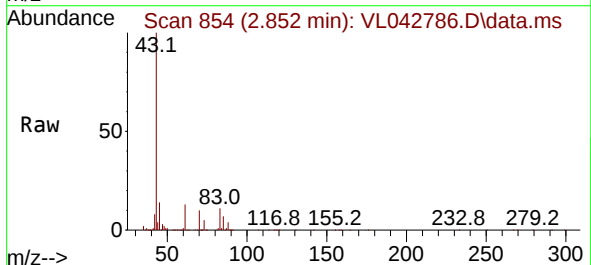
Instrument :
MSVOA_L
ClientSampleId :
IA1

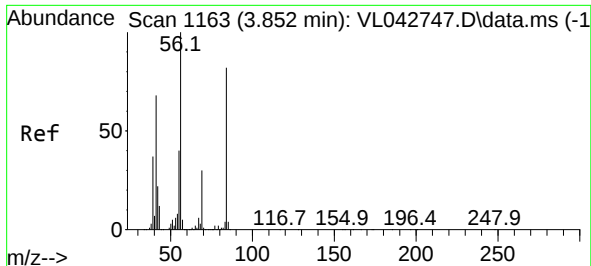
Tgt Ion: 73 Resp: 625
Ion Ratio Lower Upper
73 100
57 884.3 19.8 29.8#



#29
Chloroform
Concen: 0.698 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 83 Resp: 20938
Ion Ratio Lower Upper
83 100
85 65.3 52.2 78.2

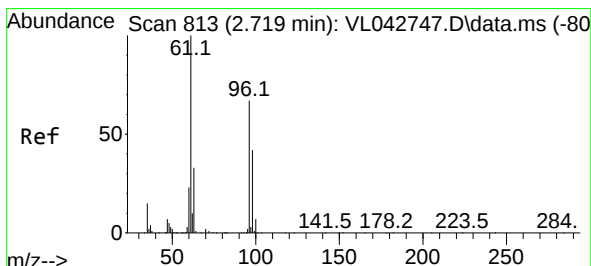
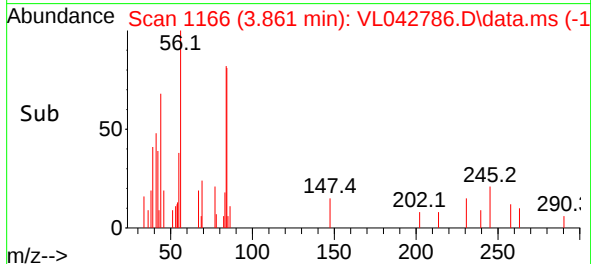
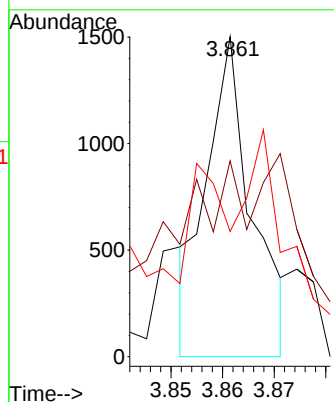
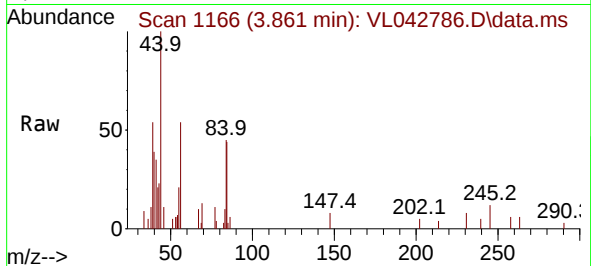




#30
Cyclohexane
Concen: 0.055 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

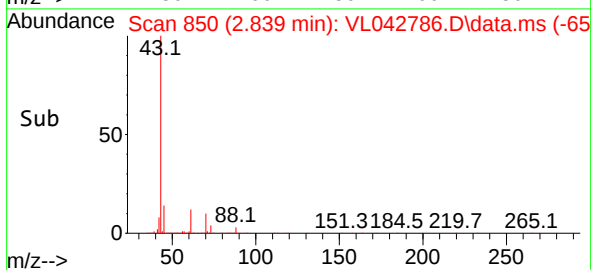
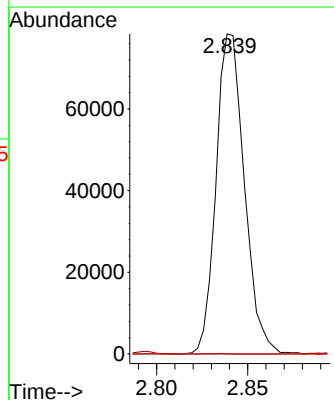
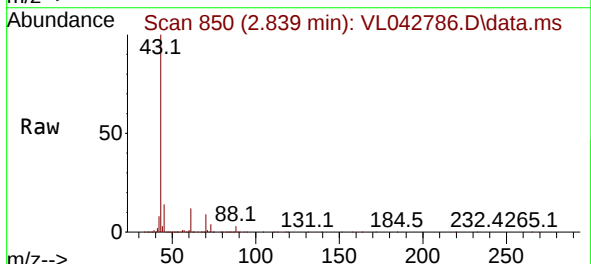
Instrument :
MSVOA_L
ClientSampleId :
IA1

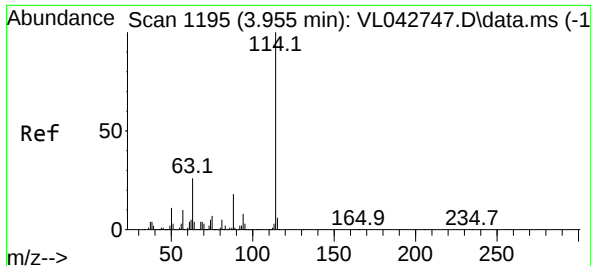
Tgt Ion: 84 Resp: 912
Ion Ratio Lower Upper
84 100
56 0.0 97.5 146.3#
41 0.0 67.2 100.8#



#31
cis-1,2-Dichloroethene
Concen: 4.237 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.120 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 61 Resp: 84504
Ion Ratio Lower Upper
61 100
96 0.0 53.5 80.3#
98 0.0 33.6 50.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1

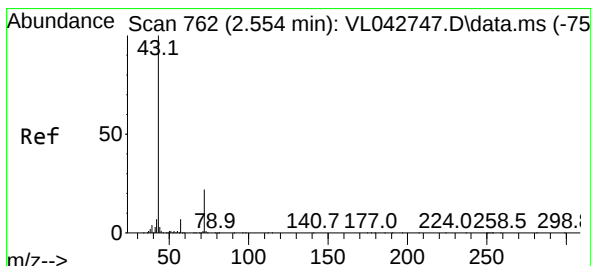
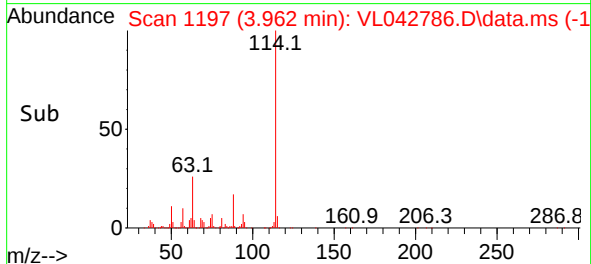
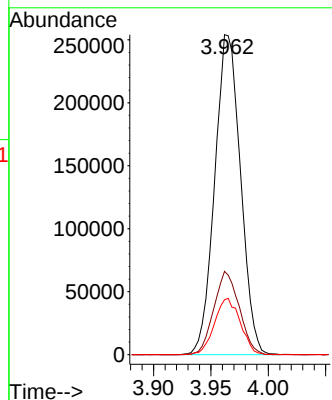
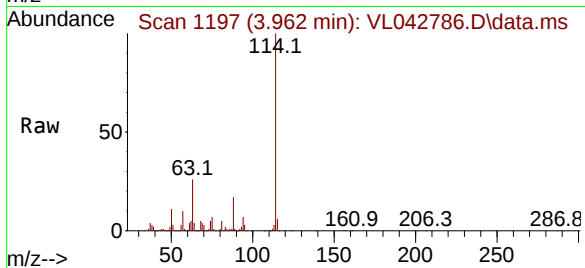
Tgt Ion:114 Resp: 398064

Ion Ratio Lower Upper

114 100

63 25.6 20.5 30.7

88 17.6 14.0 21.0



#34

2-Butanone

Concen: 2.481 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042786.D

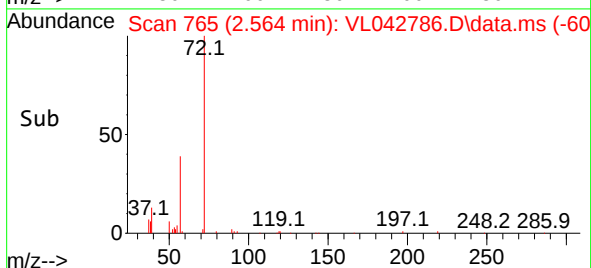
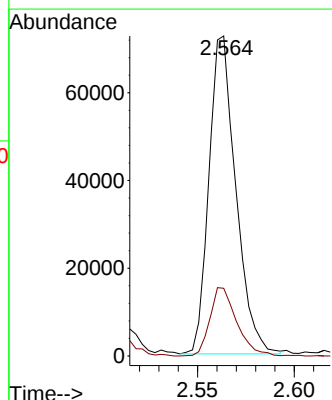
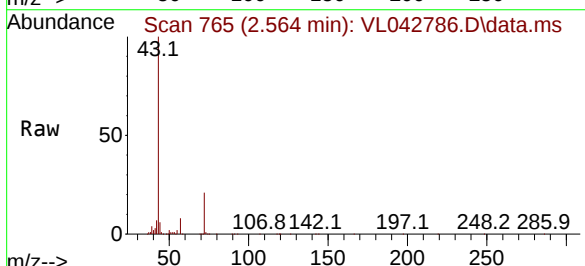
Acq: 29 Jul 2025 16:48

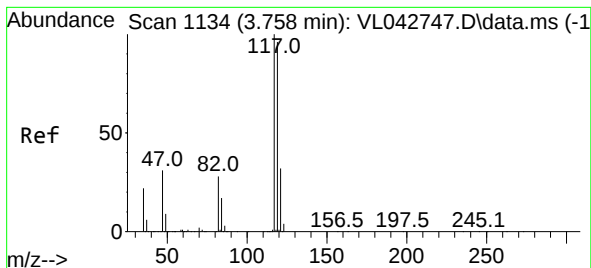
Tgt Ion: 43 Resp: 69967

Ion Ratio Lower Upper

43 100

72 21.5 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.067 ppbv

RT: 3.764 min Scan# 1134

Delta R.T. 0.006 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1

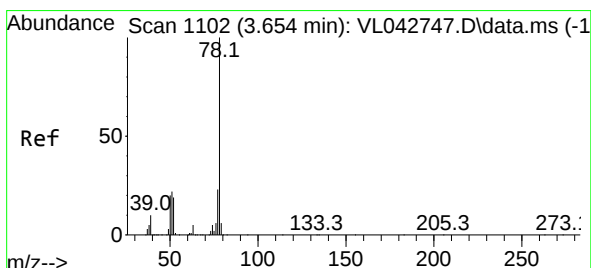
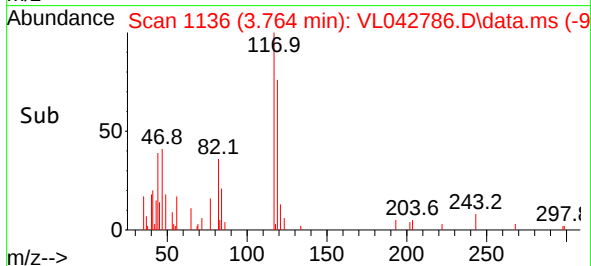
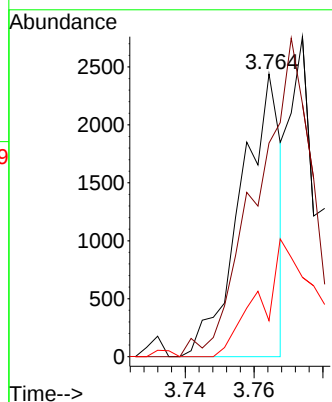
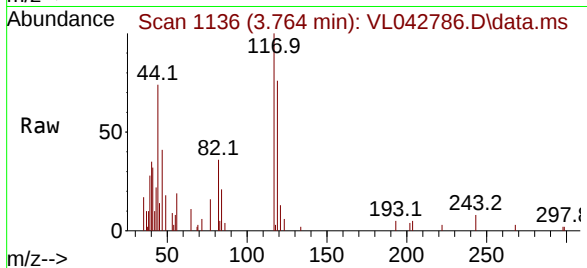
Tgt Ion:117 Resp: 1974

Ion Ratio Lower Upper

117 100

119 75.6 77.1 115.7#

121 12.8 25.5 38.3#



#36

Benzene

Concen: 0.317 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

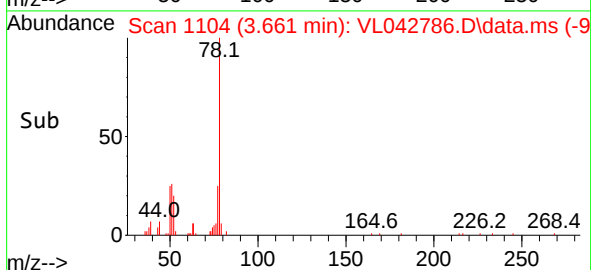
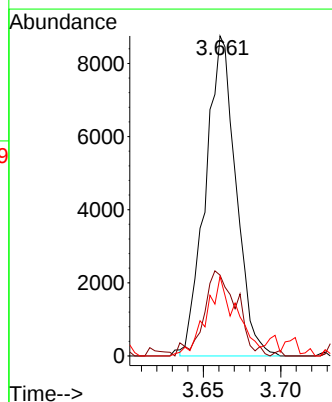
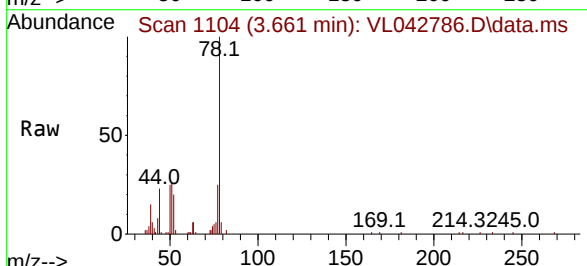
Tgt Ion: 78 Resp: 11967

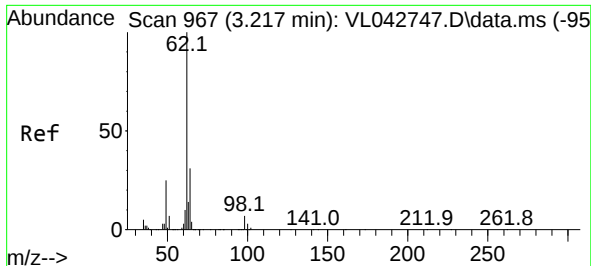
Ion Ratio Lower Upper

78 100

77 23.5 18.5 27.7

50 23.7 16.2 24.2





#37

1,2-Dichloroethane

Concen: 0.026 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

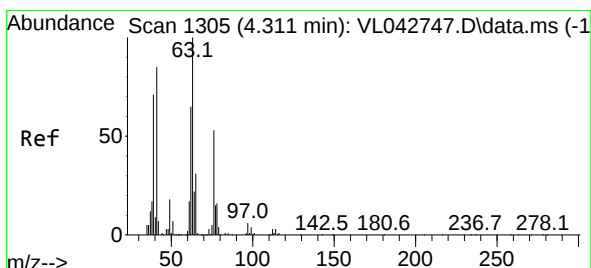
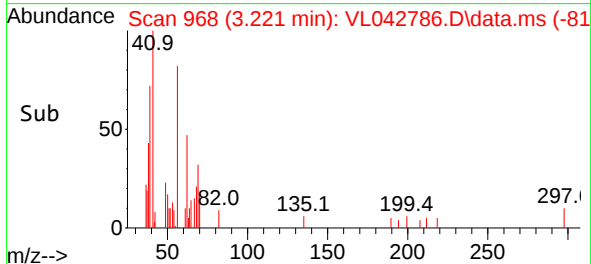
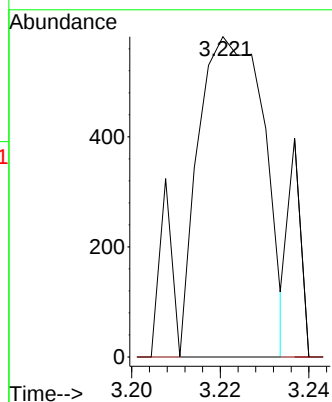
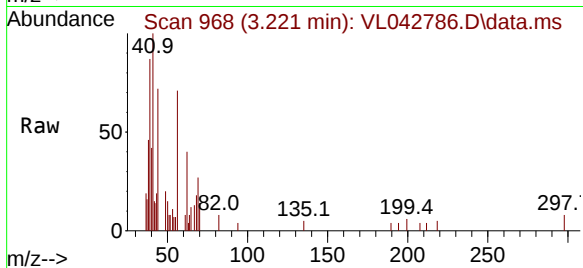
IA1

Tgt Ion: 62 Resp: 599

Ion Ratio Lower Upper

62 100

98 0.0 5.2 7.8#



#39

1,2-Dichloropropane

Concen: 7.313 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

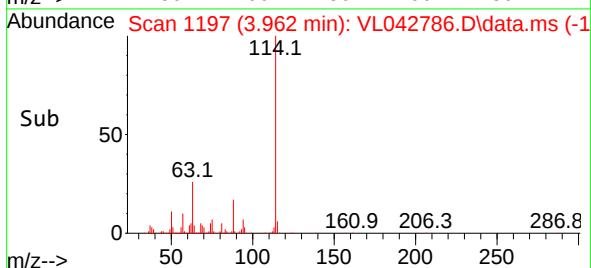
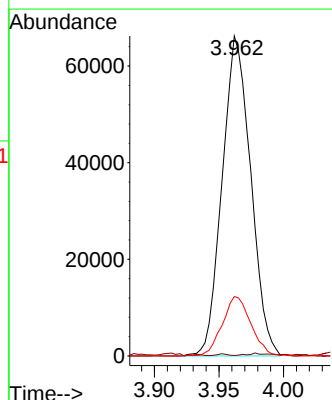
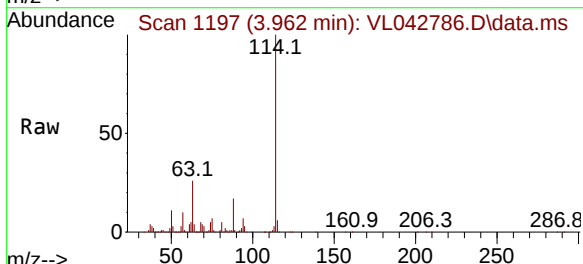
Tgt Ion: 63 Resp: 101832

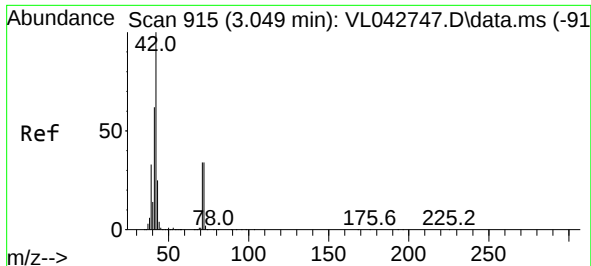
Ion Ratio Lower Upper

63 100

41 0.0 68.2 102.4#

62 18.5 52.0 78.0#

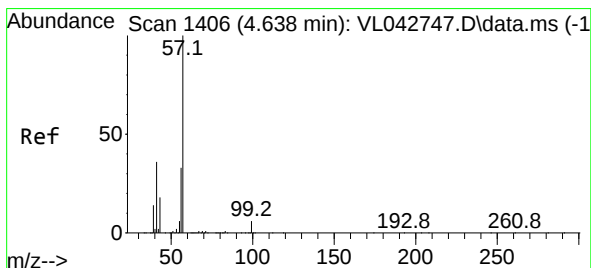
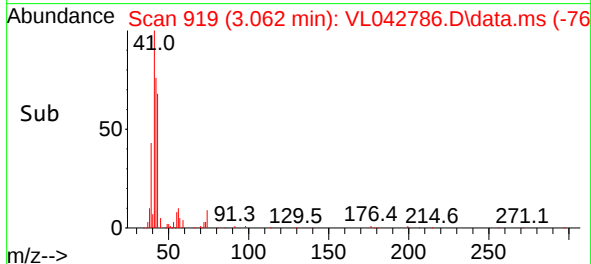
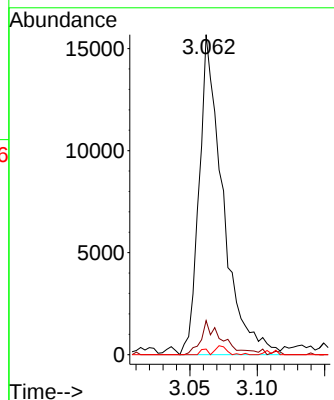
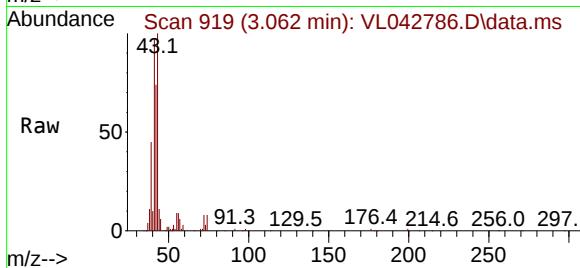




#41
Tetrahydrofuran
Concen: 1.340 ppbv
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

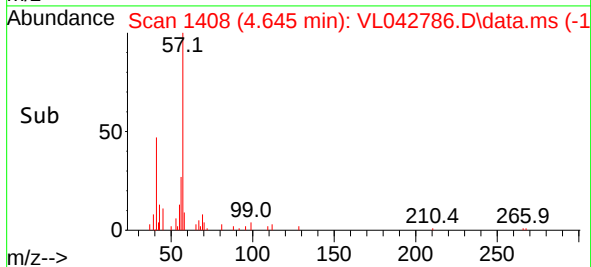
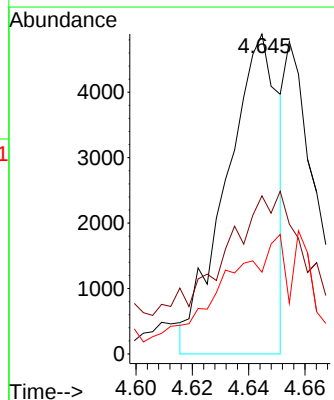
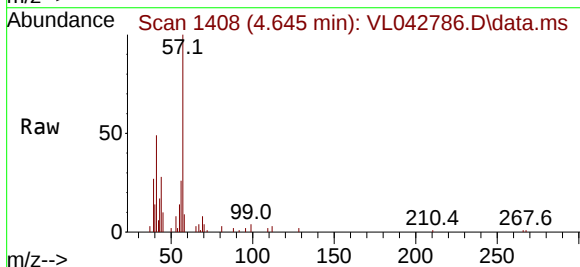
Instrument :
MSVOA_L
ClientSampleId :
IA1

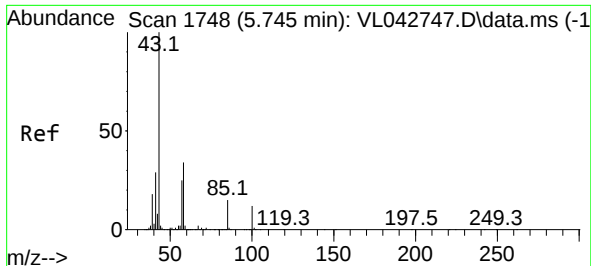
Tgt Ion: 42 Resp: 19230
Ion Ratio Lower Upper
42 100
72 10.1 30.9 46.3#
71 1.8 28.6 43.0#



#44
2,2,4-Trimethylpentane
Concen: 0.102 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 57 Resp: 6259
Ion Ratio Lower Upper
57 100
41 0.0 28.3 42.5#
56 0.0 25.8 38.6#





#50

4-Methyl-2-Pentanone

Concen: 0.862 ppbv

RT: 5.774 min Scan# 1

Delta R.T. 0.029 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

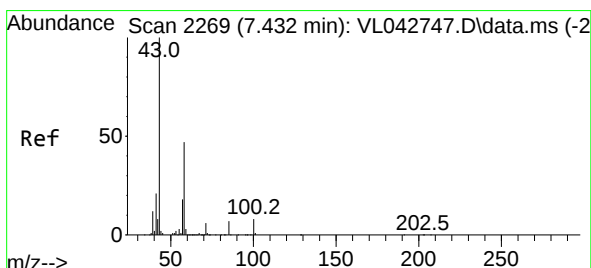
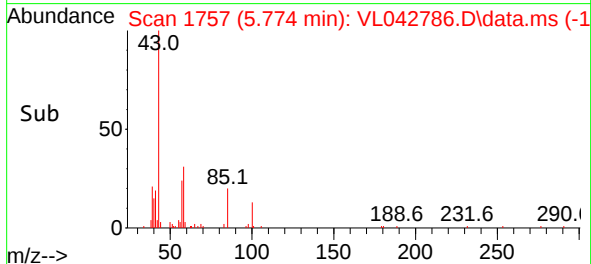
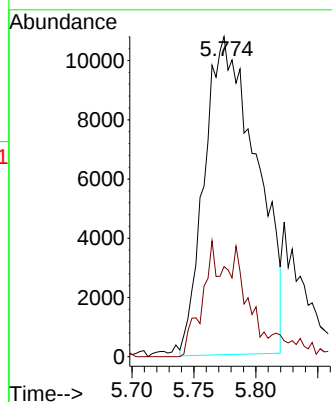
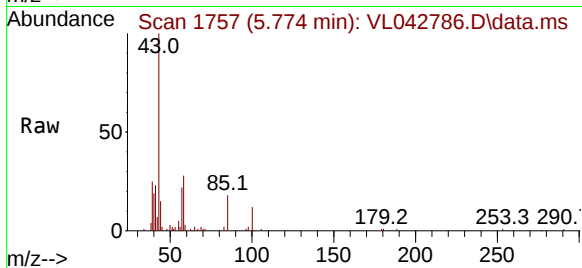
IA1

Tgt Ion: 43 Resp: 31323

Ion Ratio Lower Upper

43 100

58 31.3 27.8 41.8



#51

2-Hexanone

Concen: 0.971 ppbv

RT: 7.448 min Scan# 2274

Delta R.T. 0.016 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

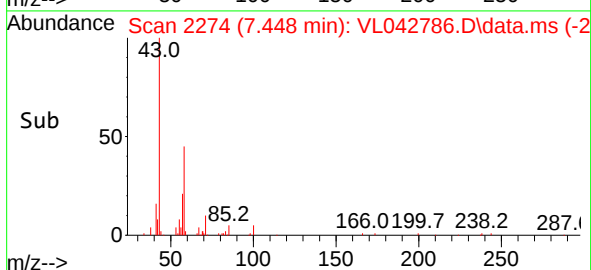
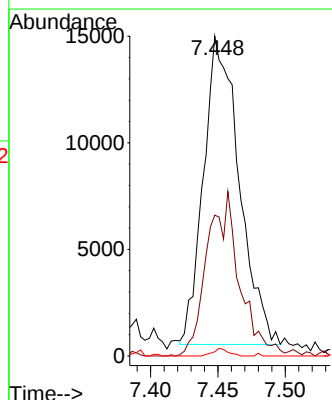
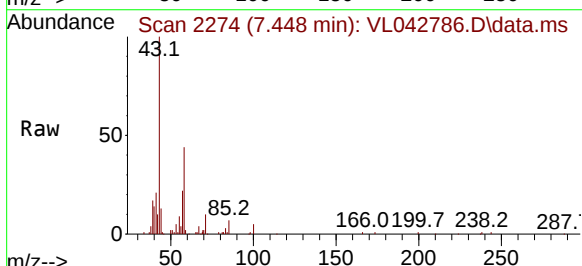
Tgt Ion: 43 Resp: 26639

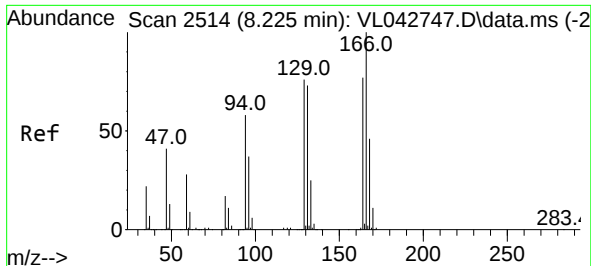
Ion Ratio Lower Upper

43 100

58 49.5 38.0 57.0

98 1.0 0.2 0.4#

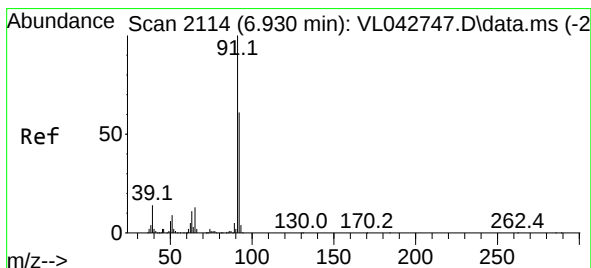
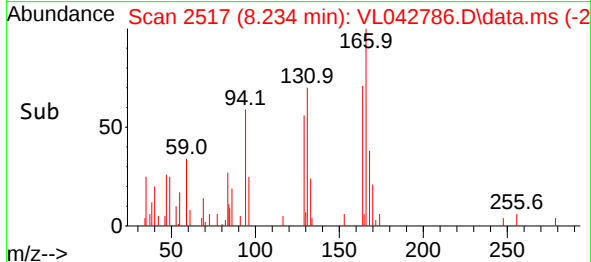
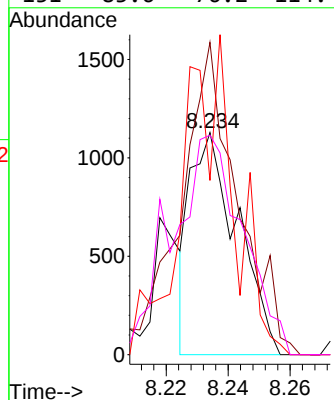
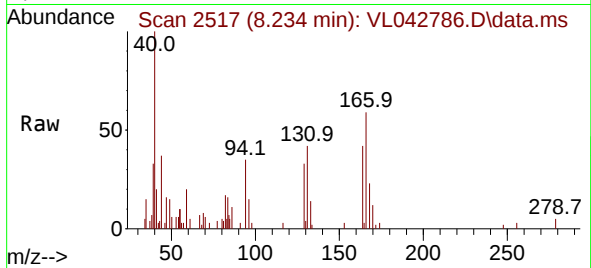




#52
Tetrachloroethene
Concen: 0.076 ppbv
RT: 8.234 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

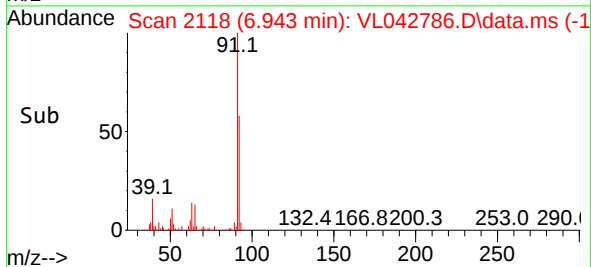
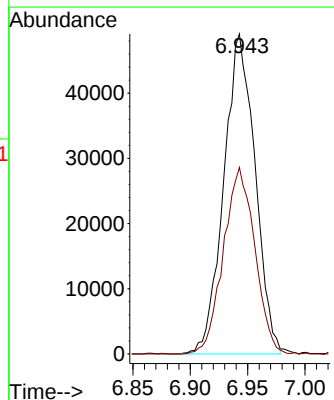
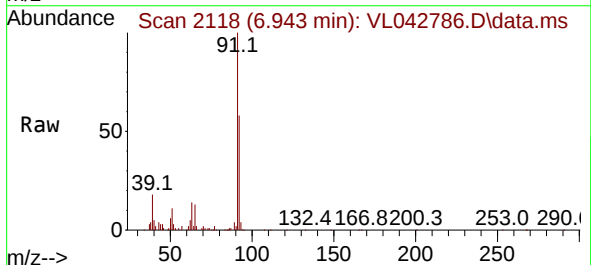
Instrument :
MSVOA_L
ClientSampleId :
IA1

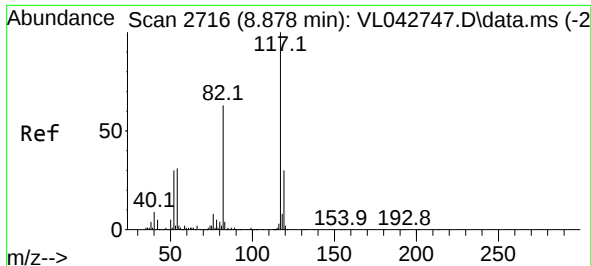
Tgt Ion:	164	Resp:	1196
Ion	Ratio	Lower	Upper
164	100		
166	133.0	104.0	156.0
129	73.8	79.2	118.8#
131	83.6	76.2	114.4



#53
Toluene
Concen: 2.295 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion:	91	Resp:	92975
Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.0	72.0

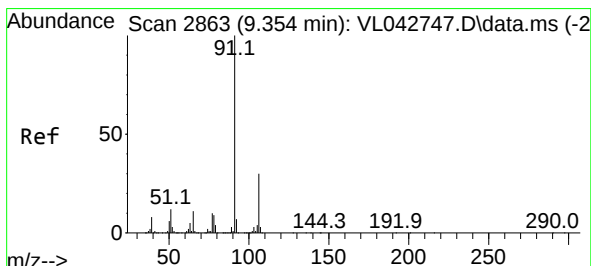
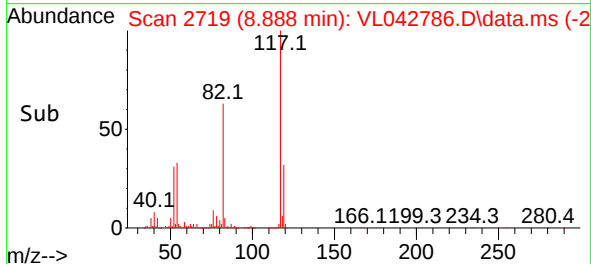
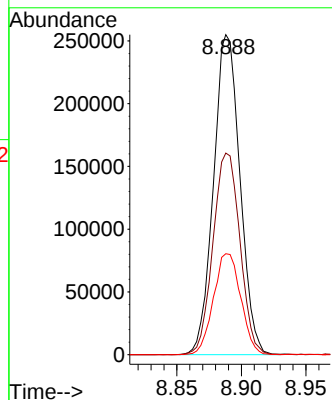
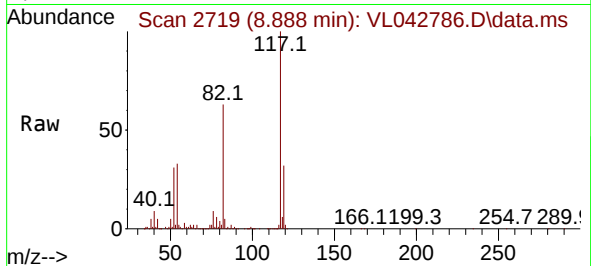




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

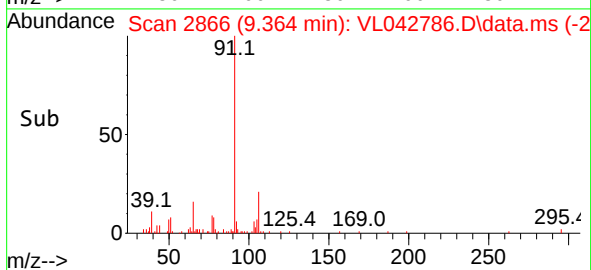
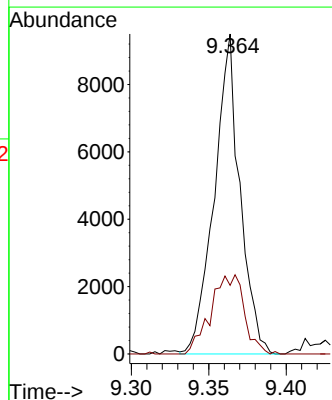
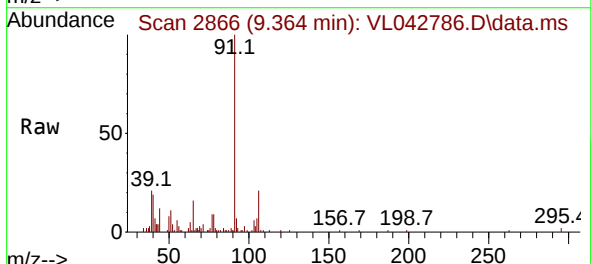
Instrument :
MSVOA_L
ClientSampleId :
IA1

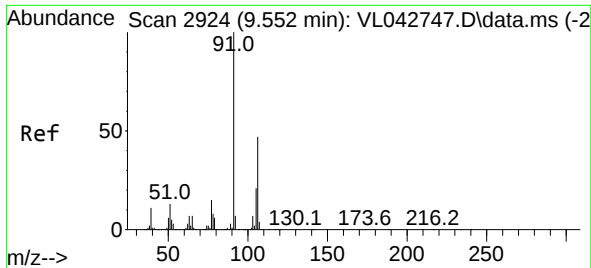
Tgt Ion:117 Resp: 363372
Ion Ratio Lower Upper
117 100
82 64.2 53.3 79.9
119 32.6 25.8 38.6



#58
Ethyl Benzene
Concen: 0.190 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 91 Resp: 10925
Ion Ratio Lower Upper
91 100
106 21.5 23.8 35.6#





#59

m/p-Xylene

Concen: 0.810 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

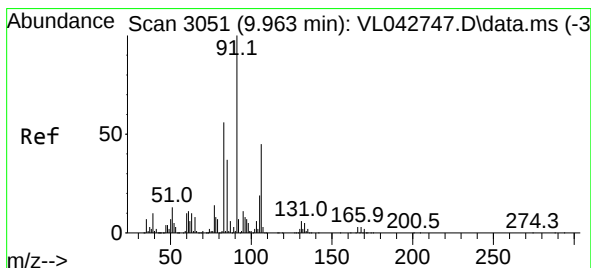
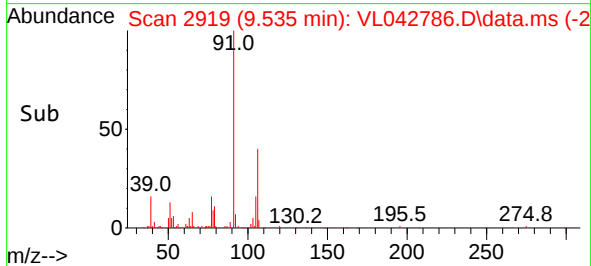
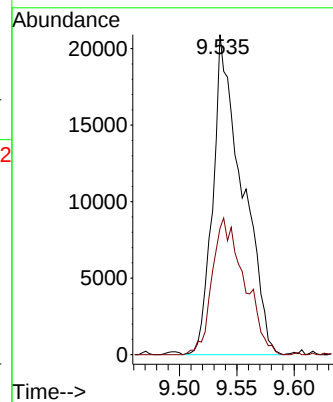
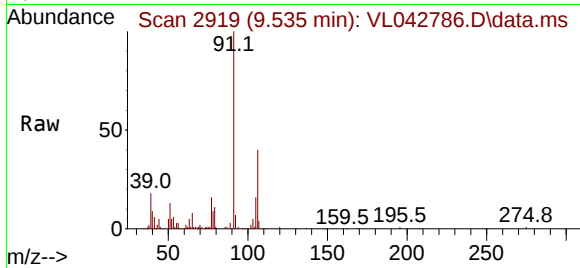
IA1

Tgt Ion: 91 Resp: 37151

Ion Ratio Lower Upper

91 100

106 47.0 37.4 56.2



#60

o-Xylene

Concen: 0.392 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042786.D

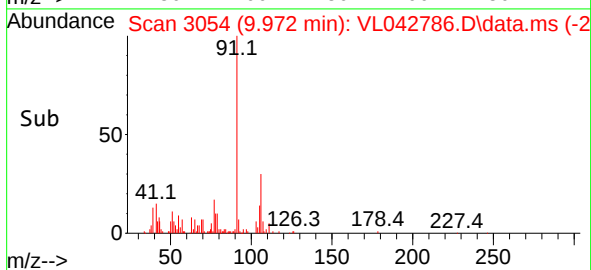
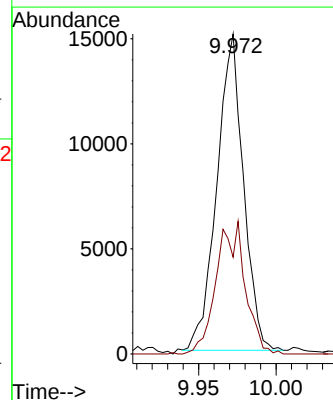
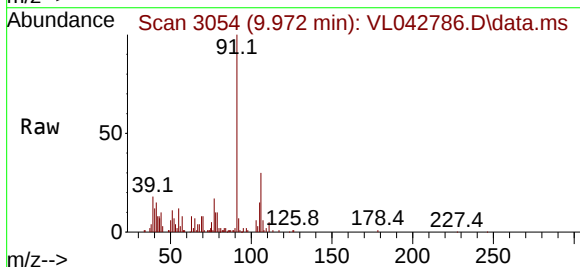
Acq: 29 Jul 2025 16:48

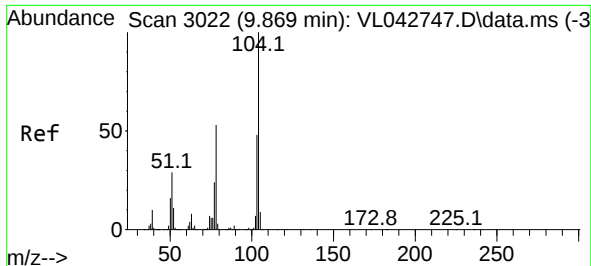
Tgt Ion: 91 Resp: 17984

Ion Ratio Lower Upper

91 100

106 45.3 22.0 66.0





#61

Styrene

Concen: 1.181 ppbv

RT: 9.878 min Scan# 3022

Delta R.T. 0.010 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1

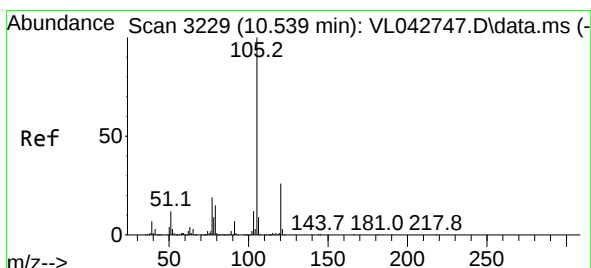
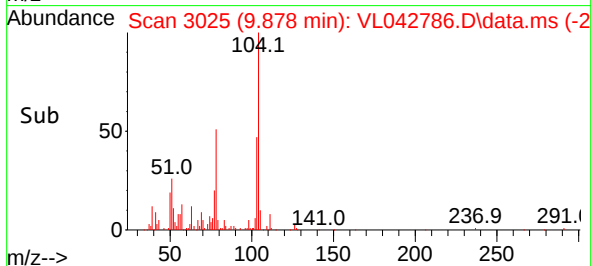
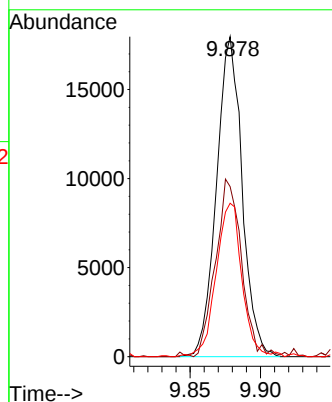
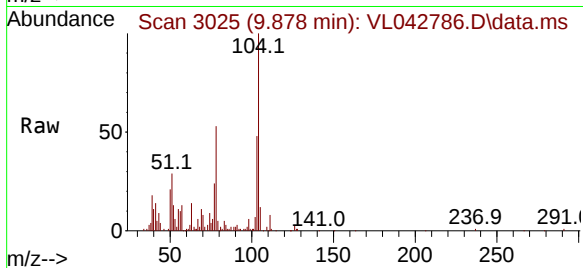
Tgt Ion:104 Resp: 22758

Ion Ratio Lower Upper

104 100

78 56.5 41.5 62.3

103 48.8 37.5 56.3



#62

Isopropylbenzene

Concen: 0.084 ppbv

RT: 10.548 min Scan# 3232

Delta R.T. 0.010 min

Lab File: VL042786.D

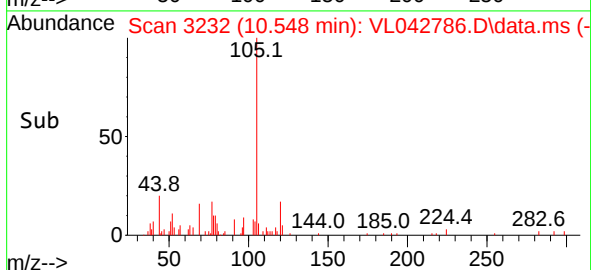
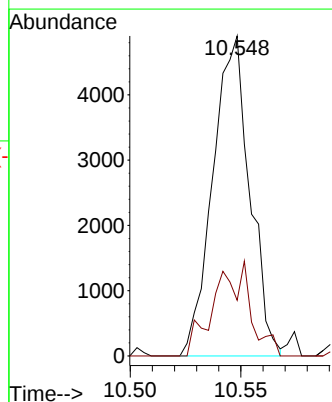
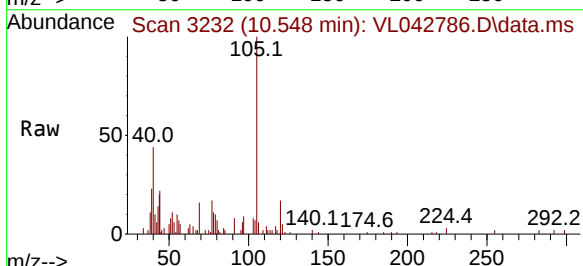
Acq: 29 Jul 2025 16:48

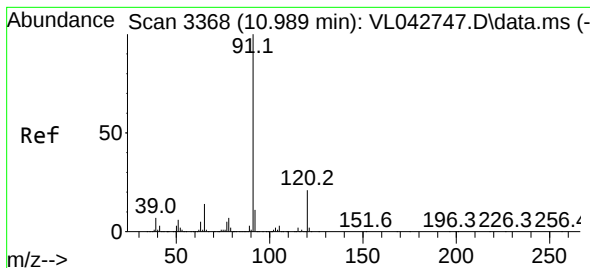
Tgt Ion:105 Resp: 5702

Ion Ratio Lower Upper

105 100

120 28.8 20.5 30.7





#64

n-propylbenzene

Concen: 0.266 ppbv

RT: 10.995 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

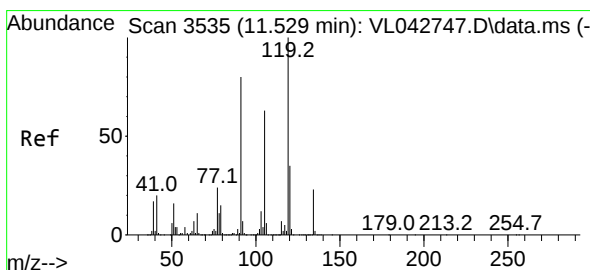
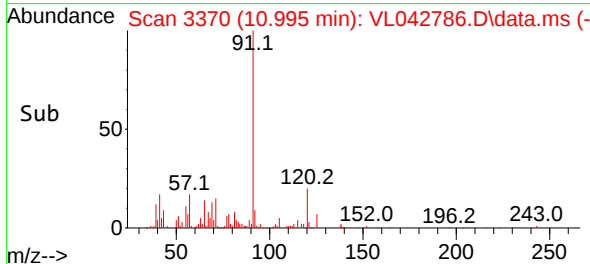
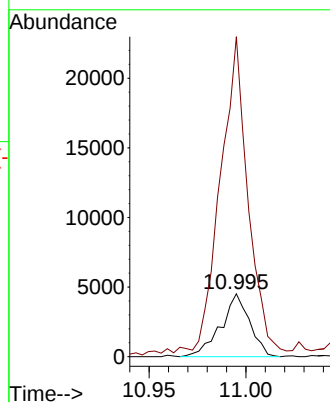
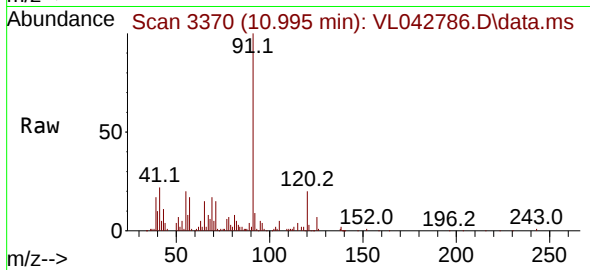
IA1

Tgt Ion:120 Resp: 4688

Ion Ratio Lower Upper

120 100

91 504.5 372.7 559.1



#65

tert-Butylbenzene

Concen: 0.203 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.013 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

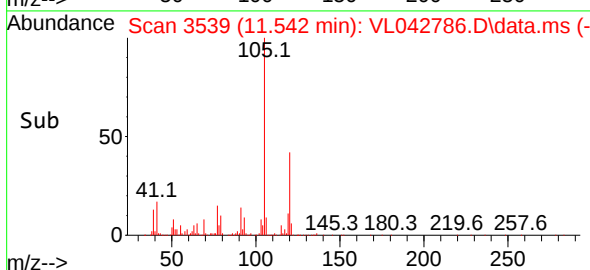
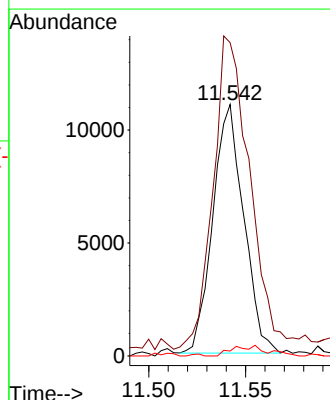
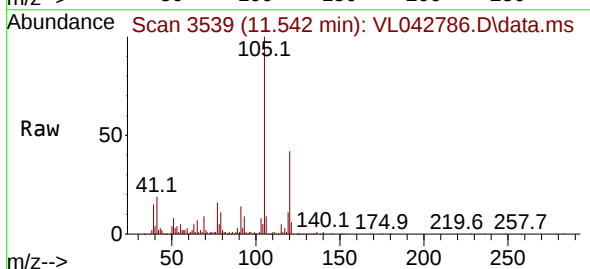
Tgt Ion:119 Resp: 12215

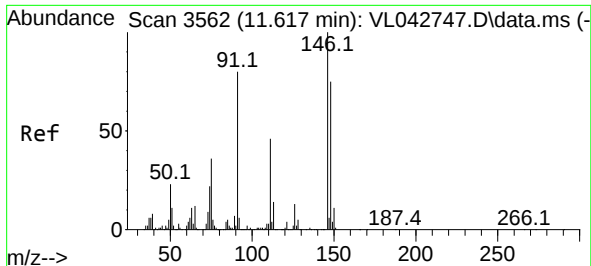
Ion Ratio Lower Upper

119 100

91 162.0 64.0 96.0#

134 5.8 17.3 25.9#

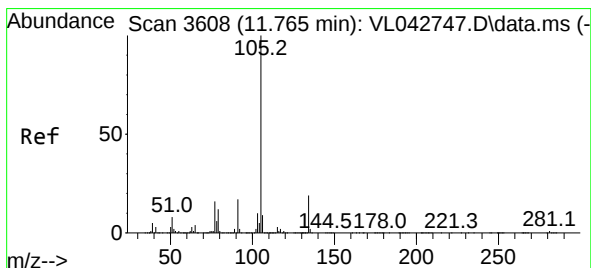
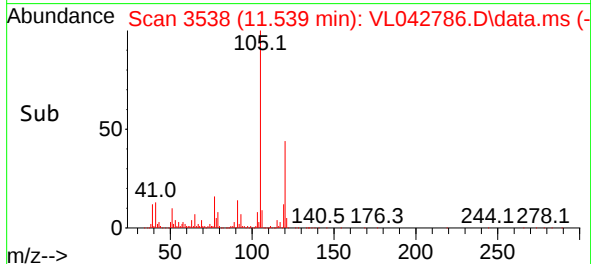
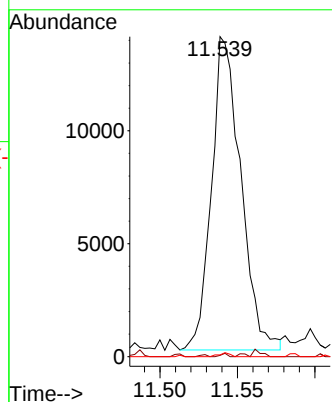
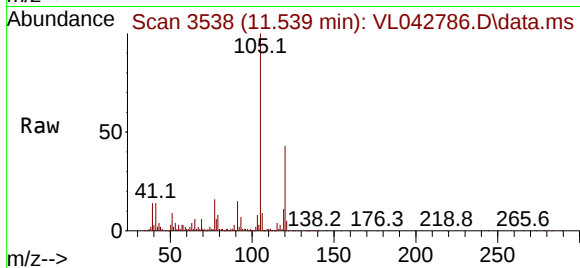




#66
Benzyl Chloride
Concen: 3.700 ppbv
RT: 11.539 min Scan# 31
Delta R.T. -0.078 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

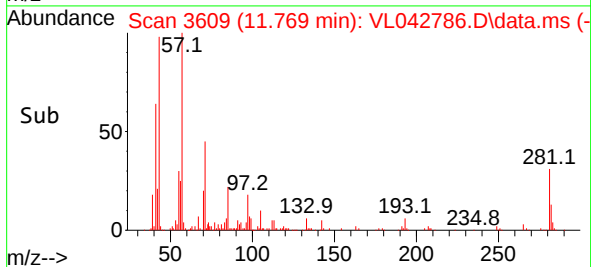
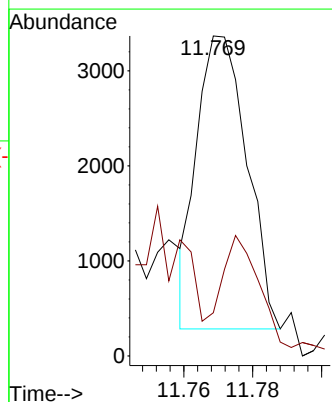
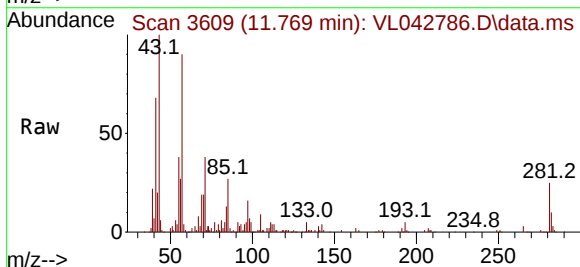
Instrument :
MSVOA_L
ClientSampleId :
IA1

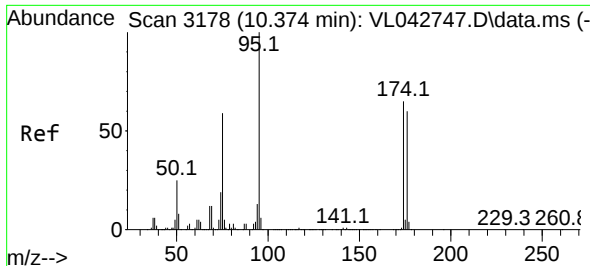
Tgt Ion: 91 Resp: 18237
Ion Ratio Lower Upper
91 100
126 0.9 14.4 21.6#
128 0.5 5.2 7.8#



#67
sec-Butylbenzene
Concen: 0.036 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 105 Resp: 3112
Ion Ratio Lower Upper
105 100
134 96.5 15.5 23.3#

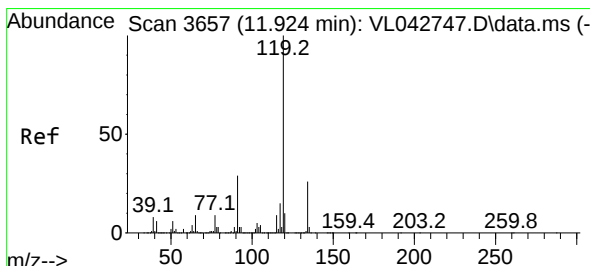
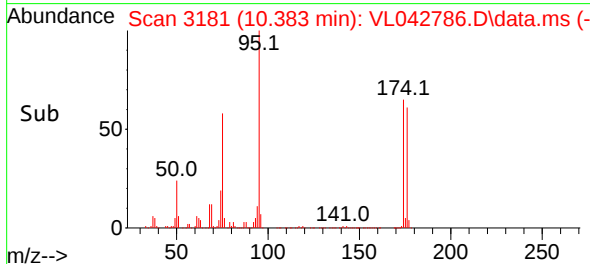
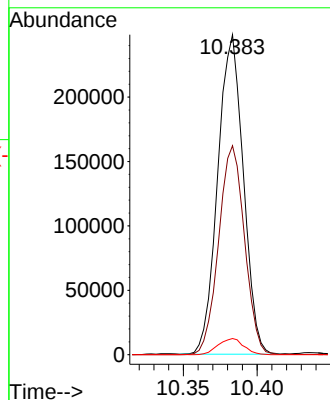
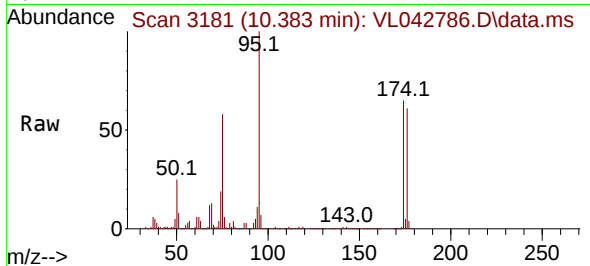




#68
1-Bromo-4-Fluorobenzene
Concen: 10.406 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

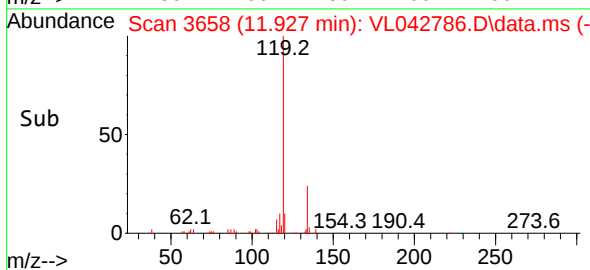
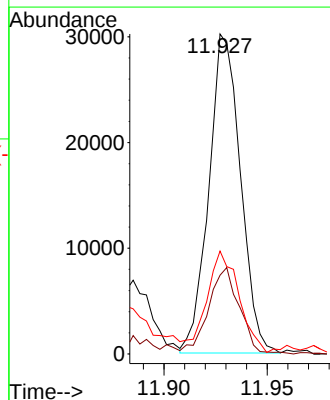
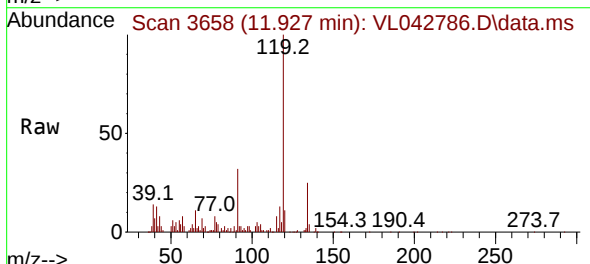
Instrument :
MSVOA_1
ClientSampleId :
IA1

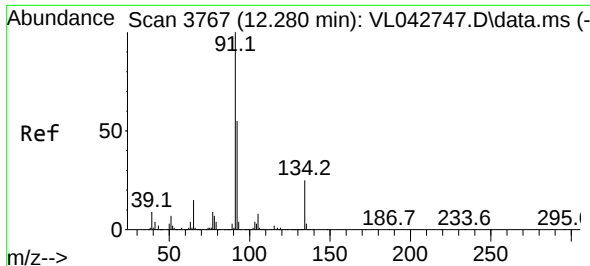
Tgt Ion: 95 Resp: 299457
Ion Ratio Lower Upper
95 100
174 66.1 53.8 80.6
175 5.1 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.461 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 119 Resp: 32129
Ion Ratio Lower Upper
119 100
134 32.5 20.6 31.0#
91 33.3 23.2 34.8

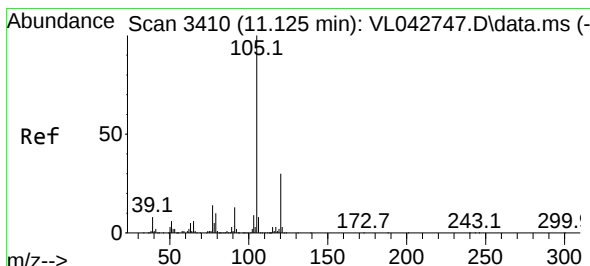
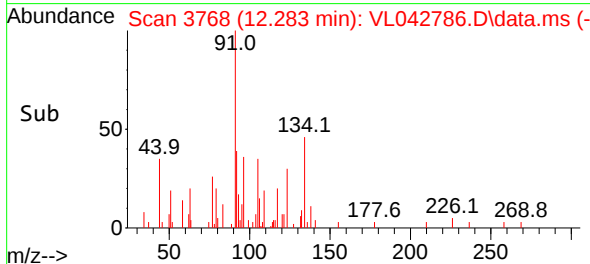
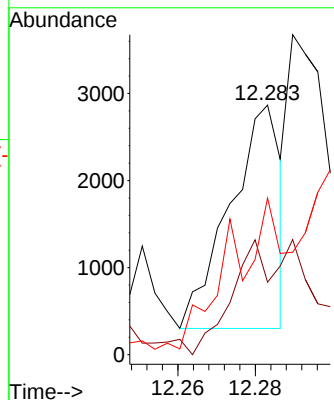
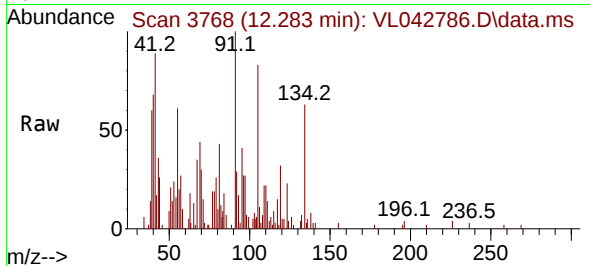




#70
n-Butylbenzene
Concen: 0.035 ppbv
RT: 12.283 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

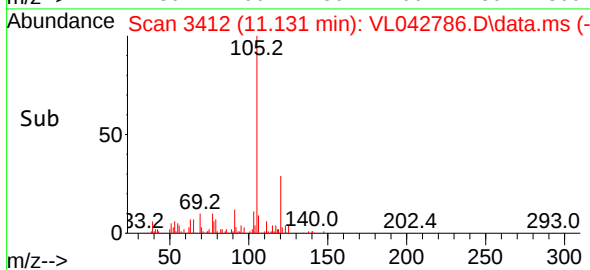
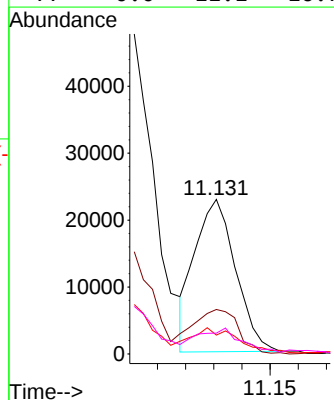
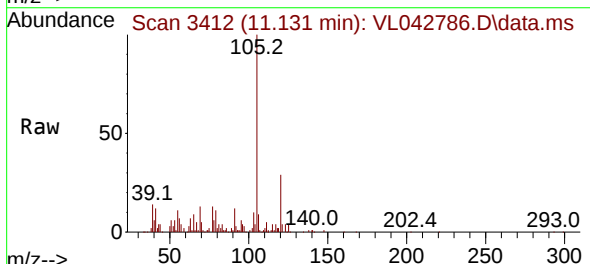
Instrument :
MSVOA_L
ClientSampleId :
IA1

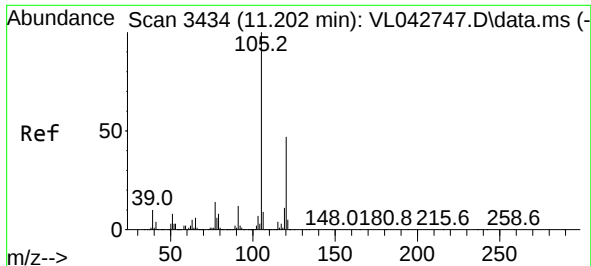
Tgt Ion: 91 Resp: 2333
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 157.7 19.6 29.4#



#72
4-Ethyltoluene
Concen: 0.419 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion:105 Resp: 22908
Ion Ratio Lower Upper
105 100
120 0.0 24.4 36.6#
91 0.0 10.6 15.8#
77 0.0 11.1 16.7#

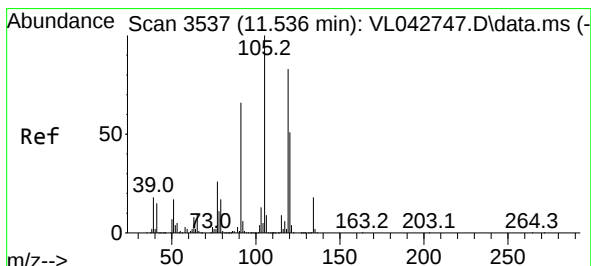
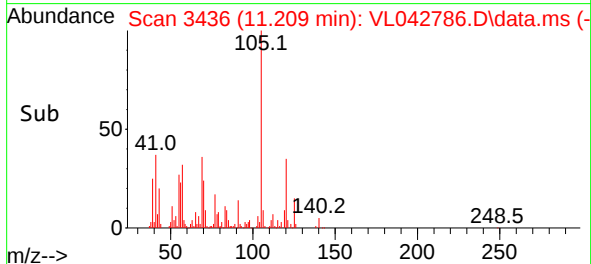
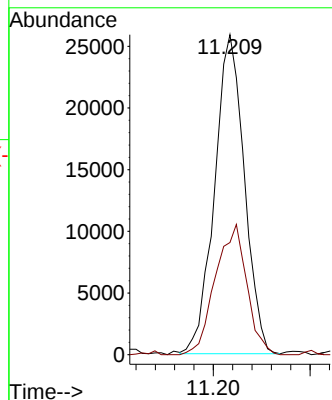
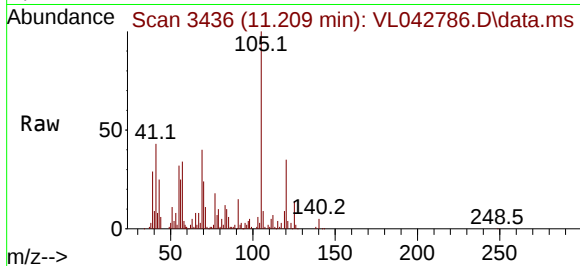




#73
1,3,5-Trimethylbenzene
Concen: 0.613 ppbv
RT: 11.209 min Scan# 3434
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

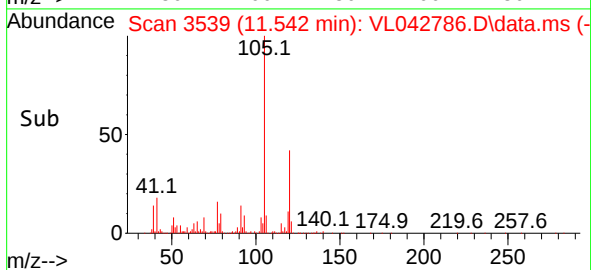
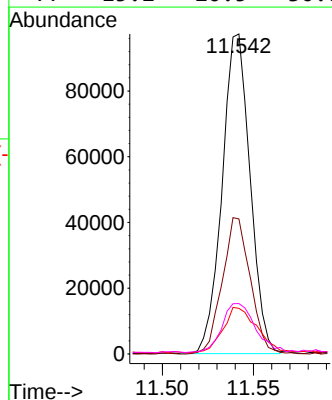
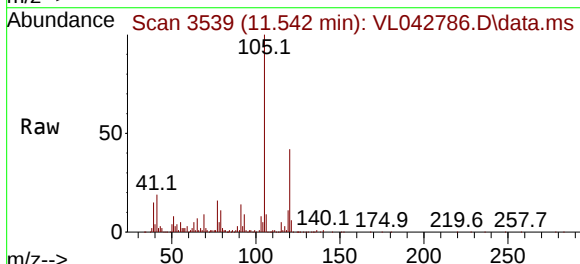
Instrument :
MSVOA_L
ClientSampleId :
IA1

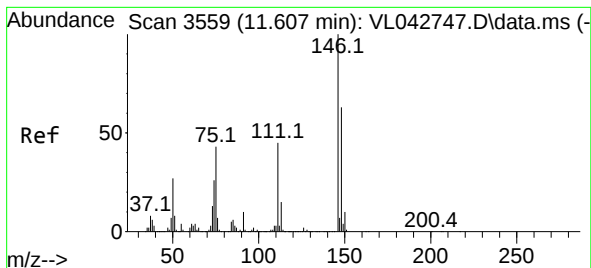
Tgt Ion:105 Resp: 27631
Ion Ratio Lower Upper
105 100
120 35.2 37.8 56.8#



#74
1,2,4-Trimethylbenzene
Concen: 2.113 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion:105 Resp: 103870
Ion Ratio Lower Upper
105 100
120 42.1 40.8 61.2
91 13.7 53.0 79.4#
77 15.2 20.5 30.7#





#75

1,3-Dichlorobenzene

Concen: 0.244 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.068 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1

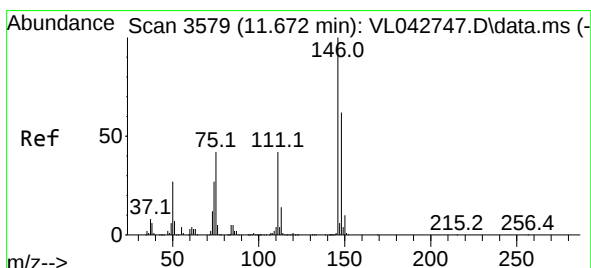
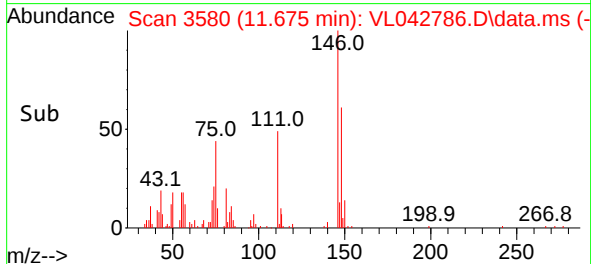
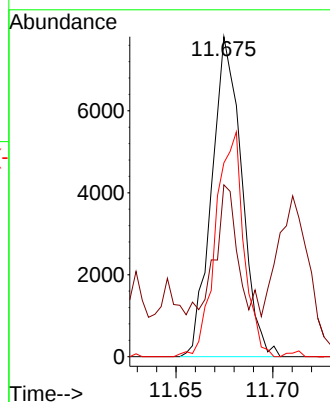
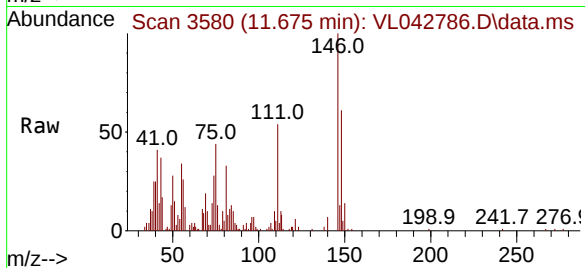
Tgt Ion:146 Resp: 8416

Ion Ratio Lower Upper

146 100

111 65.8 22.7 68.0

148 66.5 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.250 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

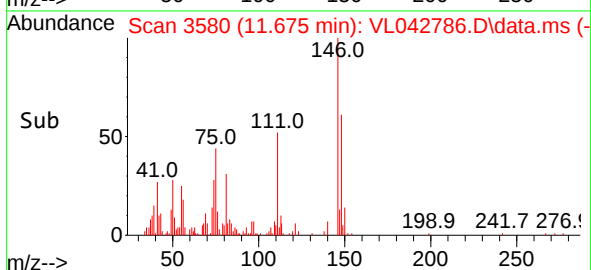
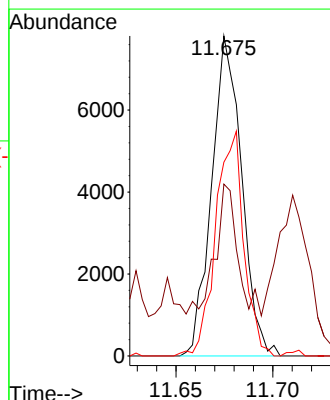
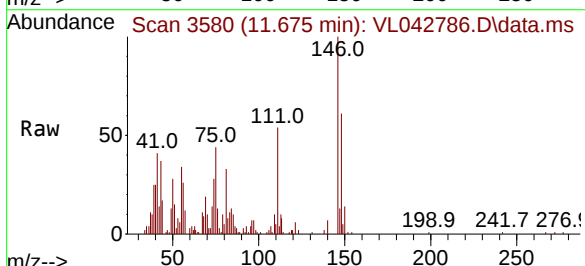
Tgt Ion:146 Resp: 8416

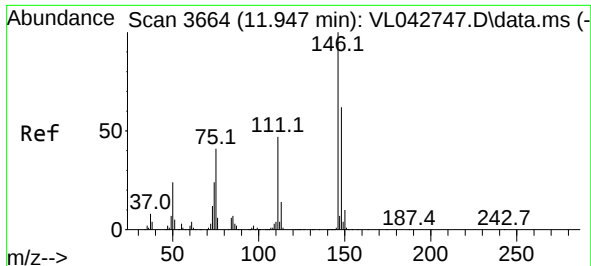
Ion Ratio Lower Upper

146 100

111 55.8 21.4 64.2

148 66.5 32.1 96.3

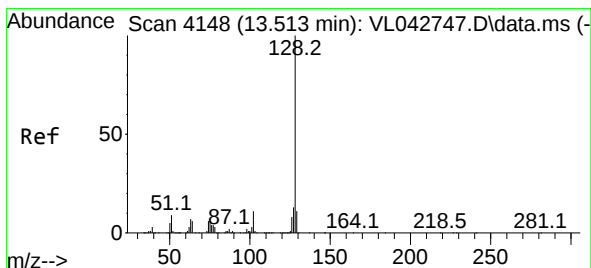
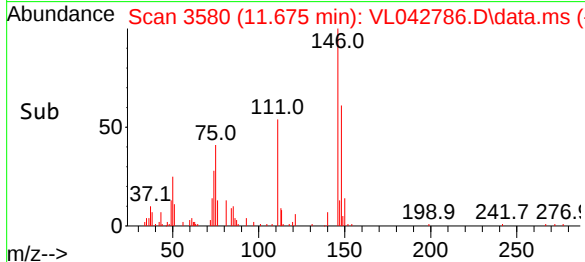
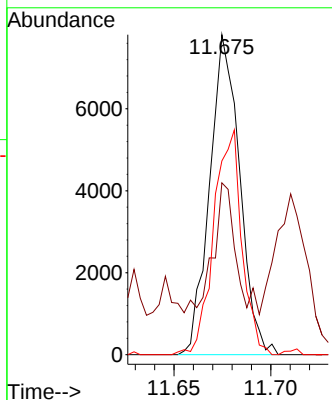
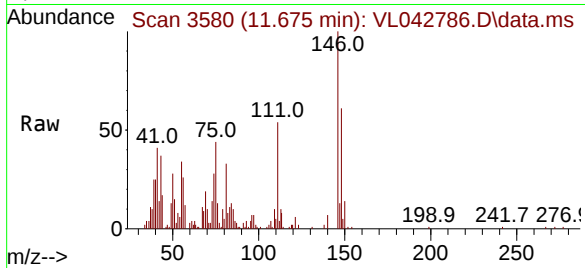




#77
1,2-Dichlorobenzene
Concen: 0.248 ppbv
RT: 11.675 min Scan# 311
Delta R.T. -0.272 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

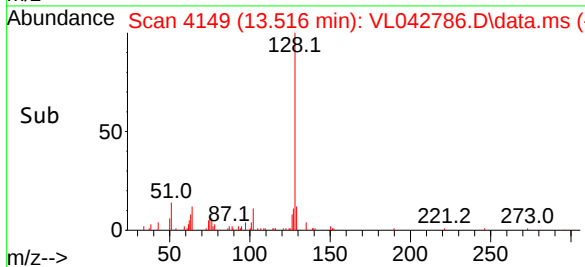
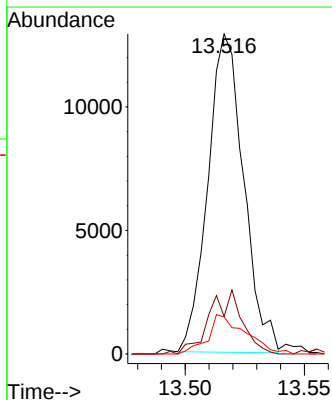
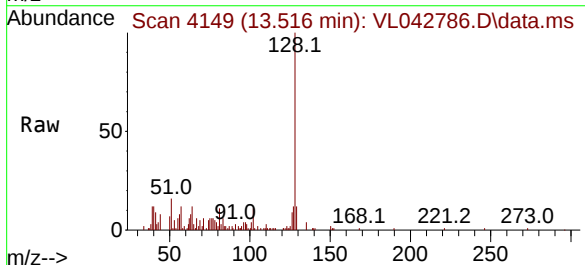
Instrument :
MSVOA_L
ClientSampleId :
IA1

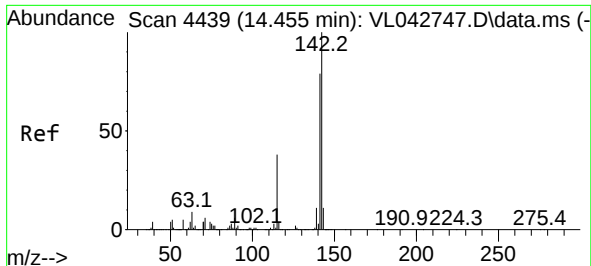
Tgt Ion:146 Resp: 8416
Ion Ratio Lower Upper
146 100
111 45.9 23.7 71.1
148 66.5 32.6 97.7



#79
Naphthalene
Concen: 0.676 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion:128 Resp: 13453
Ion Ratio Lower Upper
128 100
127 11.8 10.5 15.7
129 11.7 8.6 13.0

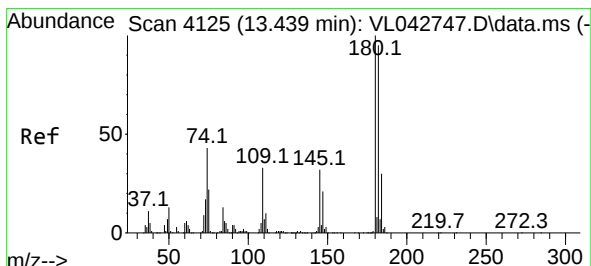
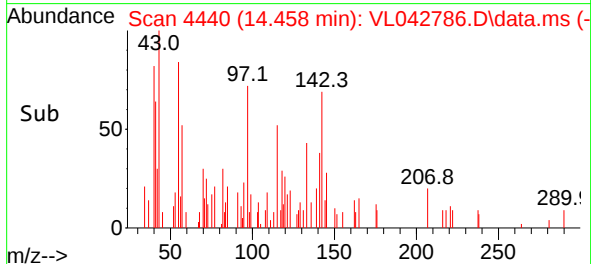
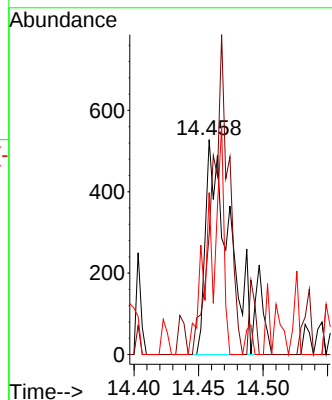
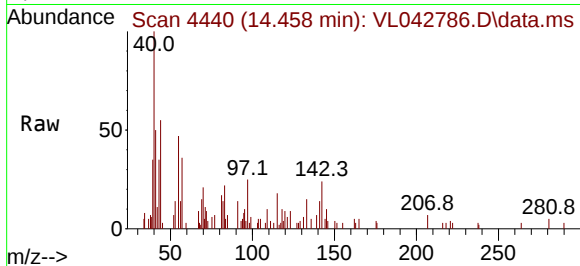




#80
Naphthalene, 2-methyl-
Concen: 1.154 ppbv
RT: 14.458 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:142 Resp: 757
Ion Ratio Lower Upper
142 100
141 103.6 65.8 98.8#
115 57.9 31.2 46.8#



#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.448 min Scan# 4128
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion:180 Resp: 45
Ion Ratio Lower Upper
180 100
182 0.0 76.2 114.2#
184 0.0 24.8 37.2#

